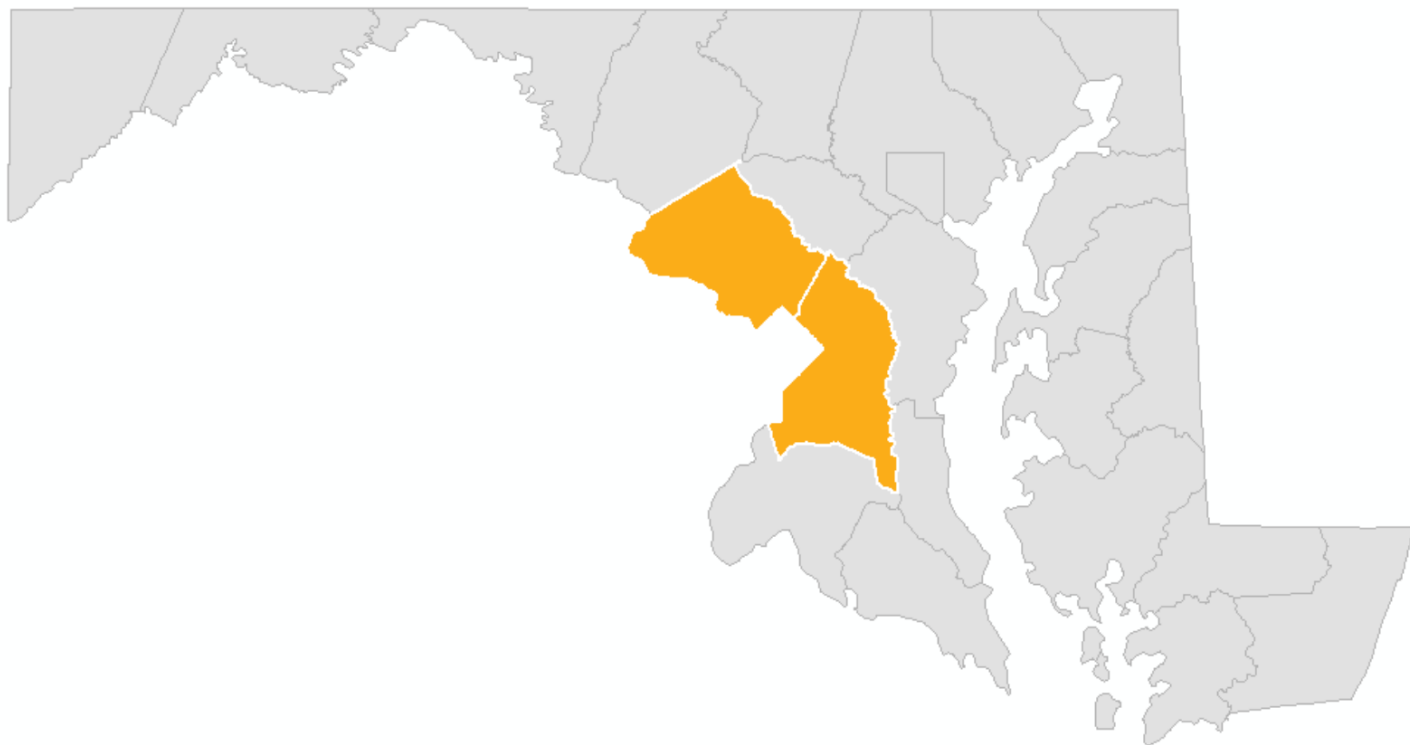


2017



Suburban Region Annual HIV Epidemiological Profile

Data reported through June 30, 2018



Center for HIV Surveillance, Epidemiology and Evaluation
Infectious Disease Prevention and Health Services Bureau
Prevention and Health Promotion Administration
<http://phpa.health.maryland.gov/OIDEOR/CHSE>
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Section I – Background Information

HIV/AIDS Reporting Requirements

The Maryland HIV/AIDS Reporting Act of 2007 went into effect on April 24, 2007. The law expanded HIV/AIDS reporting and required that HIV cases be reported by name. The following highlights the reporting requirements of Health-General Articles 18-201.1, 18-202.1, and 18-205 of the Annotated Code of Maryland, as specified in the Code of Maryland Regulations (COMAR) 10.18.02.

- Physicians are required to report patients in their care with diagnoses of HIV or AIDS immediately to the Local Health Department where the physician's office is located by mailing the Maryland Confidential Morbidity Report (DHMH 1140). Reports are also accepted by phone.
- Physicians are required to report infants born to HIV positive mothers within 48 hours to the Maryland Department of Health by mailing the Maryland Confidential Morbidity Report (DHMH 1140). Reports are also accepted by phone.
- Clinical and infection control practitioners in hospitals, nursing homes, hospice facilities, medical clinics in correctional facilities, inpatient psychiatric facilities, and inpatient drug rehabilitation facilities are required to report patients in the care of the institution with diagnoses of HIV or AIDS within 48 hours to the Local Health Department where the institution is located by mailing the Maryland Confidential Morbidity Report (DHMH 1140). Reports are also accepted by phone. Facilities with large volumes are encouraged to contact the Maryland Department of Health to establish electronic reporting.
- Laboratory directors are required to report patients with laboratory results indicating HIV infection (e.g., positive confirmatory HIV diagnostic tests, all CD4 immunological tests, all HIV viral load tests, and all HIV genotype and phenotype tests) within 48 hours to the Local Health Department where the laboratory is located, or if out of state to the Maryland Department of Health, by mailing the State of Maryland HIV/CD4 Laboratory Reporting Form (DHMH 4492). Laboratories are encouraged to contact the Maryland Department of Health to establish electronic reporting.

Reporting forms and instructions, including mailing addresses and phones numbers, are available on our website: <https://phpa.health.maryland.gov/OIDEOR/CHSE/Pages/reporting-material.aspx>

For Assistance with HIV/AIDS Reporting

For assistance with reporting, including establishment of routine, electronic, or other alternate methods of reporting to the Maryland Department of Health, please contact the Center for HIV Surveillance, Epidemiology and Evaluation in the Maryland Department of Health at 410-767-5227.

Limitations in the HIV/AIDS Data

This epidemiological profile only contains data for HIV and AIDS cases that have been diagnosed by a health care provider, were reported to the health department by name, and were residents of Maryland at the time of diagnosis or are current residents of Maryland as of December 31, 2017. The most recent Centers for Disease Control and Prevention (CDC) estimate of the number of people living with undiagnosed HIV infection is 14.5 percent for the United States and 14.0 percent for Maryland in 2015. Using the CDC CD4 depletion model on Maryland surveillance data, the estimated number of people living with undiagnosed HIV infection in Maryland is 11.6 percent in 2016. Surveillance is the ongoing systematic collection, analysis, interpretation, and dissemination of case report data. Case report data are only available for cases receiving medical care, often only at facilities in Maryland, and only includes information that has been reported to the health department. Linkage to care data is based solely on laboratory data reported to the health department.

This epidemiological profile provides estimates of living Maryland diagnosed cases by current residence as of December 31, 2017. Residence at diagnosis and age at diagnosis are used exclusively to describe new HIV and AIDS diagnoses. Current residence data are restricted to cases for which there is a case report form or laboratory test reported since January 1, 2009. Restricting address data to recent years presents the most accurate data available and helps to account for cases that may have moved out of state whose data would no longer be reported in Maryland. However, current residence data excludes cases that may still be residents of Maryland but have not received any HIV care during the most recent nine and a half years. In addition, residence is dynamic and cases may have resided at multiple addresses that cannot all be represented in single time point estimates.

This epidemiological profile contains data for transgender HIV and AIDS cases that have been diagnosed by a health care provider, were reported to the health department by name, and were residents of Maryland at the time of diagnosis or are current residents of Maryland as of December 31, 2017. Historically, it has been difficult to fully present data by current gender identification. Data on transgender people has been limited in the Maryland Department of Health's Enhanced HIV/AIDS Reporting System (eHARS). No reliable system exists for collecting or reporting gender identity and some agencies do not collect or have complete data on gender identity. This report is likely underreporting the number transgender HIV and AIDS cases because of challenges in accurately identifying and reporting gender identity in HIV surveillance.

Lastly, the completeness of reporting for race/ethnicity is variable in surveillance data. Definitions of race/ethnicity categories may vary across agencies and some agencies do not collect or have complete data on race/ethnicity. This report may be overreporting the number of Multiracial HIV and AIDS cases because of challenges in accurately identifying and reporting race/ethnicity in HIV surveillance.

For additional information regarding current residence, please contact the Center for HIV Surveillance, Epidemiology and Evaluation in the Maryland Department of Health at 410-767-5227.

Stages of a Case of HIV/AIDS

Untreated HIV disease progresses from HIV infection to AIDS to death. These are biological events that occur whether or not a person receives any medical care. For example, a person can be HIV infected but never have an HIV test and so they do not have an HIV diagnosis. A medical provider diagnoses that these biological events have occurred and records them as a medical event. The law requires medical providers to report these medical events to the Health Department, thereby creating a surveillance event.

Time Point	Biological Event	Medical Event	Surveillance Event
1	HIV Infection		
2		HIV Diagnosis	
3			HIV Report
4	AIDS Conditions		
5		AIDS Diagnosis	
6			AIDS Report
7	Death		
8		Death Diagnosis	
9			Death Report

A case of HIV/AIDS can only move through time in one direction, from HIV infection to death report [from time point 1 to time point 9], but may skip over individual stages. Events can occur simultaneously, but usually there is a time lag between them. The time lag between events can be measured in days, months, and years.

For example, the time between HIV infection [time point 1] and the test that diagnoses HIV [time point 2] may be several years, and it may then take several days for the laboratory and physician to report the diagnosis to the health department [time point 3]. In a second example, a person with diagnosed and reported HIV infection [time point 3] may die [time point 7] without developing AIDS, thereby skipping the three AIDS events (conditions, diagnosis, and report [time points 4, 5 and 6]). And in a third example, a person with undiagnosed HIV infection [time point 1] may become sick, enter the hospital, and die [time point 7] of what is later determined to be AIDS. In that situation, HIV diagnosis [time point 2], AIDS diagnosis [time point 5], and death diagnosis [time point 8] would all occur at the same time, and that would probably be many years after the initial HIV infection [time point 1].

Changes in Case Terminology

The terminology for HIV and AIDS cases was changed from earlier epidemiological profiles to be more precise, with Reported Diagnoses replacing Incidence and Living Cases replacing Prevalence. Incidence is a measure of the number of new events (such as HIV infections) in a population during a period of time. Prevalence is a measure of the number of people living with a condition (such as HIV) in a population at a certain time. Prevalence includes both newly and previously diagnosed cases as well as undiagnosed infections. For HIV, Incidence and Prevalence cannot be directly measured and must be estimated using statistical methods. The HIV surveillance system is able to provide the actual number of diagnoses and deaths that are reported in the population.

For this epidemiological profile, reports received through a certain time (six months after December 31st of the specified year) are used to generate the number of diagnoses during the prior years. This lag time allows for delays in reporting and time to complete investigations. Instead of the previous one-year lag, this epidemiological profile utilizes a six-month lag, and as a result, data on exposure category and deaths for the prior year are preliminary. For example, the Reported HIV Diagnoses for 2017 are the total of the reported HIV cases with or without an AIDS diagnosis, diagnosed with HIV from January 1, 2017 through December 31, 2017, as reported by name through June 30, 2018.

To calculate the number of Living Cases we count all Reported Diagnoses from the beginning of the epidemic (all new cases each year) and subtract all Reported Deaths. For example, the Total Living HIV Cases on December 31, 2017 are the total reported HIV Cases with or without an AIDS diagnosis and not reported to have died as of June 30, 2018 as reported by name through June 30, 2018.

Laboratory Data

CD4+ T-lymphocyte tests are measures of a person's immune system function. An HIV infected adult is considered to have AIDS if they have less than 200 CD4+ cells per microliter of blood or if the percent of T-Lymphocyte cells that are CD4+ cells is less than 14 percent. Viral load (VL) tests are measures of the amount of HIV in a person's body. The goal of HIV treatment is to have a very low number of copies of virus per milliliter of blood, below what the test can measure, which is called an undetectable level. Low levels of VL, such as less than 200 copies per milliliter of blood, are known as viral suppression. Treatment recommendations are that a person in HIV medical care should have their CD4 and VL levels measured regularly, at least once per year. We use the presence of these lab tests as an indicator that someone has been "linked to care" after diagnosis or is "retained in care."

Sources of Data

Information on HIV and AIDS diagnoses, including residence at diagnosis, age, race/ethnicity, sex at birth, current gender, country of birth, vital status, HIV exposure category, and CD4 and HIV viral load test results are from the Maryland Department of Health's eHARS, June 30, 2018.

Population data by sex, age, and race/ethnicity are from the July 1, 2017 U.S. Census Estimates. Population data by country-of-birth are from the Census Bureau's 2016 American Community Survey. This produces a difference in total population due to the different source. Due to estimation limitations, some population totals may not equal the sum of its components. When needed, age groups were divided by assuming uniform age distribution within the age group. Non-Hispanic multiple race and Non-Hispanic some other race from the Census were combined into one group.

Estimations of those undiagnosed are from the Centers for Disease Control and Prevention's HIV Surveillance Supplemental Report published March 2018. The continuum of care is adapted from a 2011 article in Clinical Infectious Diseases in which a continuum of care "cascade" is used to illustrate estimates of the number of persons living with HIV who belong to each of the stages of engagement in HIV care.

Tabulation of Column Totals

Numbers in figures, tables and generally in the text have been rounded. Discrepancies in tables between totals and sums of components are due to rounding.

Data Suppression

In order to protect the confidentiality of reported HIV cases, data are suppressed in the following instances:

- Data describing a demographic group or geographic area (e.g. ZIP code) with a population less than 1,000 people.
- All clinical/laboratory information if it is describing less than 5 cases.
- If any cell is suppressed, additional cells are also suppressed as necessary to prevent back calculation of the suppressed cell(s).

Exposure/risk data is not suppressed due to statistical adjustment resulting in the reporting of estimated or probable risk.

HIV Exposure Categories

The Centers for Disease Control and Prevention (CDC) developed a hierarchy of exposure categories for surveillance purposes. Persons with more than one reported risk factor are classified in the exposure category listed first in the

hierarchy and therefore counted only once. Men who report a history of sexual contact with other men and report injection drug use constitutes a separate transmission category.

MSM/IDU: Men who report a history of sexual contact with other men who also have engaged in injection drug use.

Male-to-male Sexual Contact (MSM): Men who report a history of sexual contact with other men (homosexual contact) including men who report sexual contact with both men and women (bisexual contact).

Injection Drug Use (IDU): Men or women who report receiving an injection, either self-administered or given by another person, of a drug that was not prescribed by a physician.

Heterosexual Contact (HET): Men or women who report a history of sexual contact with a person of the opposite sex who is known to have an HIV infection or at high risk for an HIV infection. High risk groups include bisexual men, IDUs and recipients of blood, blood components, transplants of organ or tissue and artificial insemination.

Perinatal Exposure: Any baby born to an HIV positive mother.

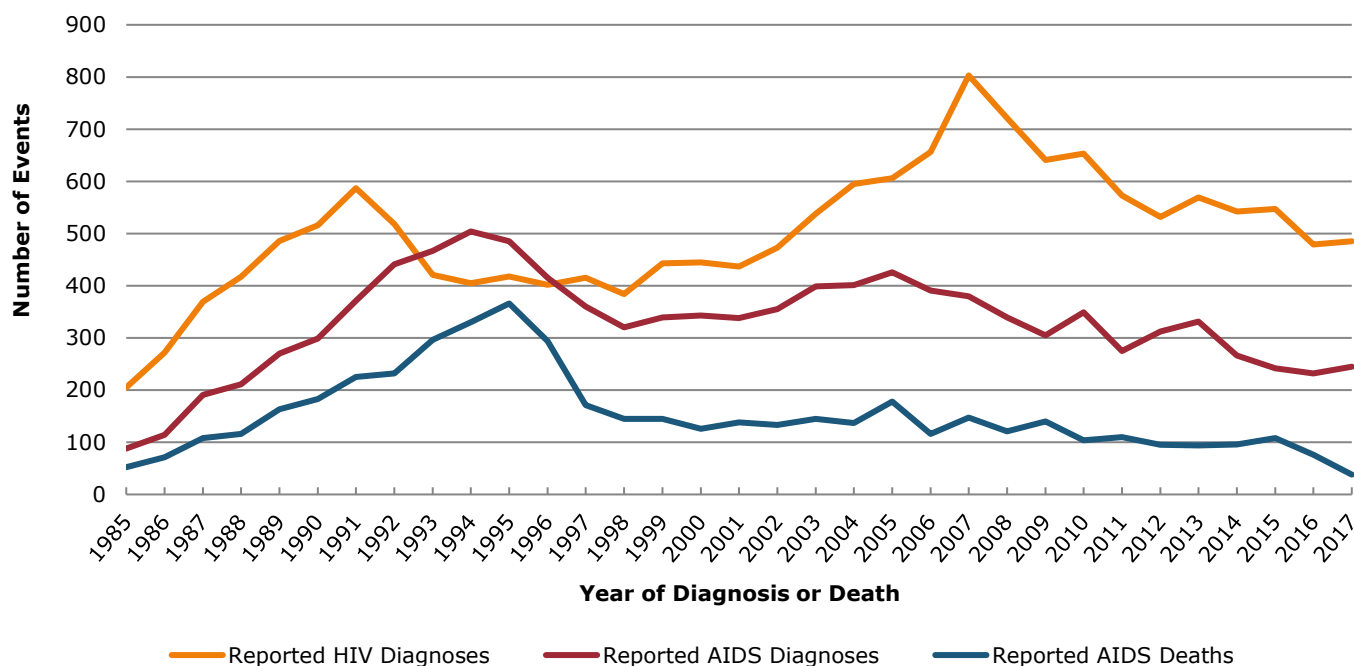
Other Exposure: Includes men or women who received clotting factor for hemophilia/coagulation disorder, or received a transfusion of blood/blood components, or received a transplant of tissue/organs or artificial insemination, or worked in a health care or clinical laboratory setting.

Not all exposure data is reported and is therefore missing for some cases. Multiple imputation is a statistical method by which missing exposure categories are replaced with estimated or probable exposure categories. Multiple imputation involves filling in the missing exposure category with multiple possible exposures, creating several complete datasets. Filling in the missing exposure category is done using the observed data for the individual case as well as data in aggregate from other cases in Maryland. The complete datasets, containing the various predictions for each missing exposure category, are combined to create a final dataset with previously missing exposure category replaced by weighted estimates. Perinatal transmission and other exposure categories are never estimated or adjusted and depict the reported exposure category.

Section II – Trends 1985-2017

Figure 1 – Trends in Reported HIV and AIDS Diagnoses and Deaths, among Residents at Diagnosis, 1985-2017, Reported through June 30, 2018

Reported HIV Cases with or without an AIDS Diagnosis (Reported HIV Diagnoses) by Year of HIV Diagnosis, Reported HIV Cases with an AIDS Diagnosis (Reported AIDS Diagnoses) by Year of AIDS Diagnosis, and Reported HIV Cases with an AIDS Diagnosis Reported to have Died of Any Cause (Reported AIDS Deaths) by Year of Death, from 1985 through 2017 as Reported through June 30, 2018

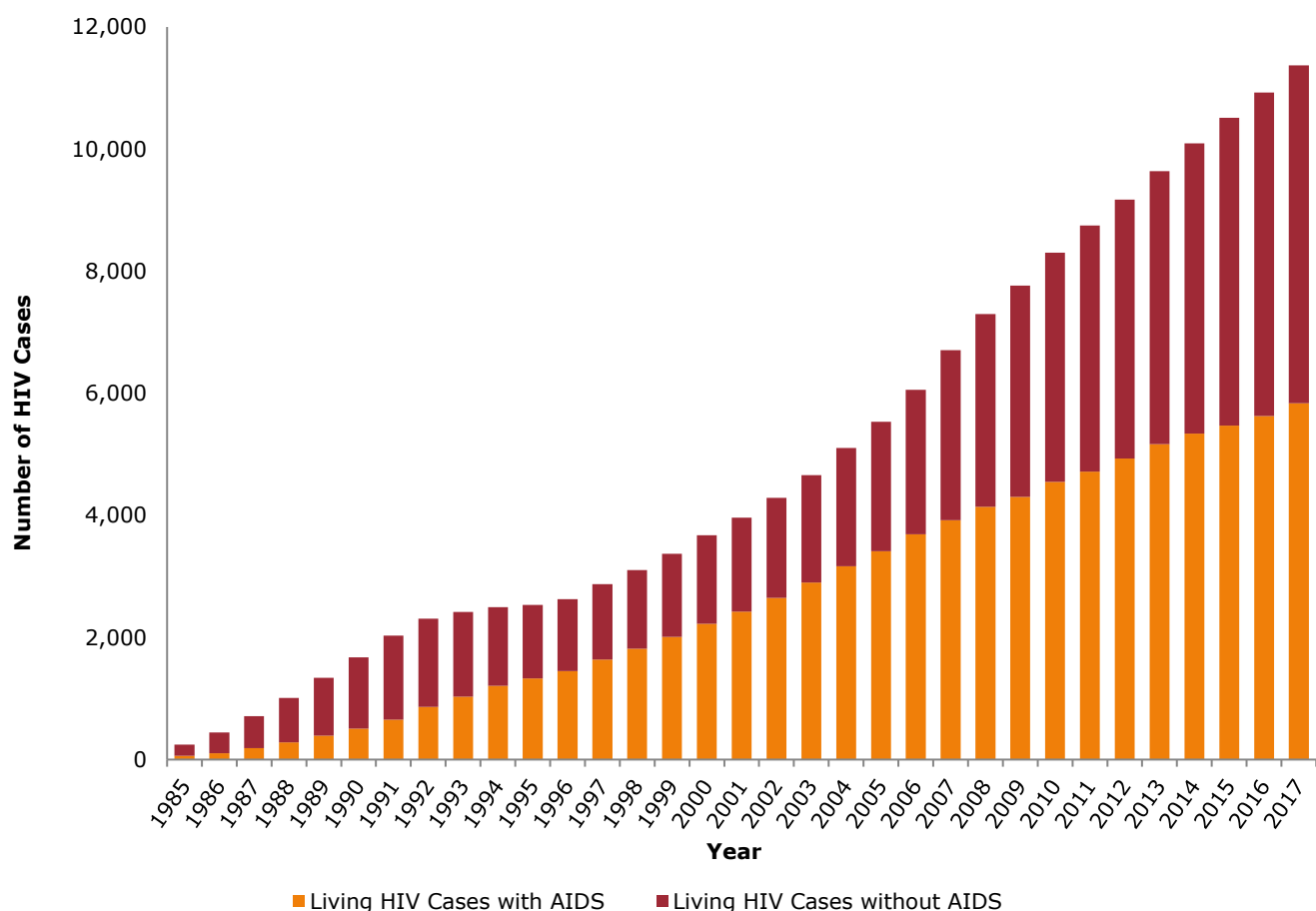


Year of Diagnosis or Death	Reported HIV Diagnoses	Reported AIDS Diagnoses	Reported AIDS Deaths	Year of Diagnosis or Death	Reported HIV Diagnoses	Reported AIDS Diagnoses	Reported AIDS Deaths
<1985	109	55	27	2001	437	338	138
1985	205	88	52	2002	473	355	133
1986	272	114	71	2003	538	399	145
1987	369	191	108	2004	595	401	137
1988	417	211	116	2005	606	426	178
1989	486	270	163	2006	656	391	116
1990	516	299	183	2007	803	380	147
1991	587	371	225	2008	721	339	121
1992	518	441	232	2009	641	305	140
1993	421	467	296	2010	653	349	104
1994	405	504	330	2011	573	275	110
1995	418	485	366	2012	532	312	95
1996	402	415	294	2013	569	331	94
1997	415	360	171	2014	542	266	96
1998	384	320	145	2015	547	242	108
1999	443	339	145	2016*	479	232	76
2000	445	343	126	2017*	485	245	38
				Total	16,662	10,859	5,026

*2016-2017 reported AIDS deaths are preliminary

Figure 2 – Trends in Living HIV Cases, among Residents at Diagnosis, 1985-2017, Reported through June 30, 2018

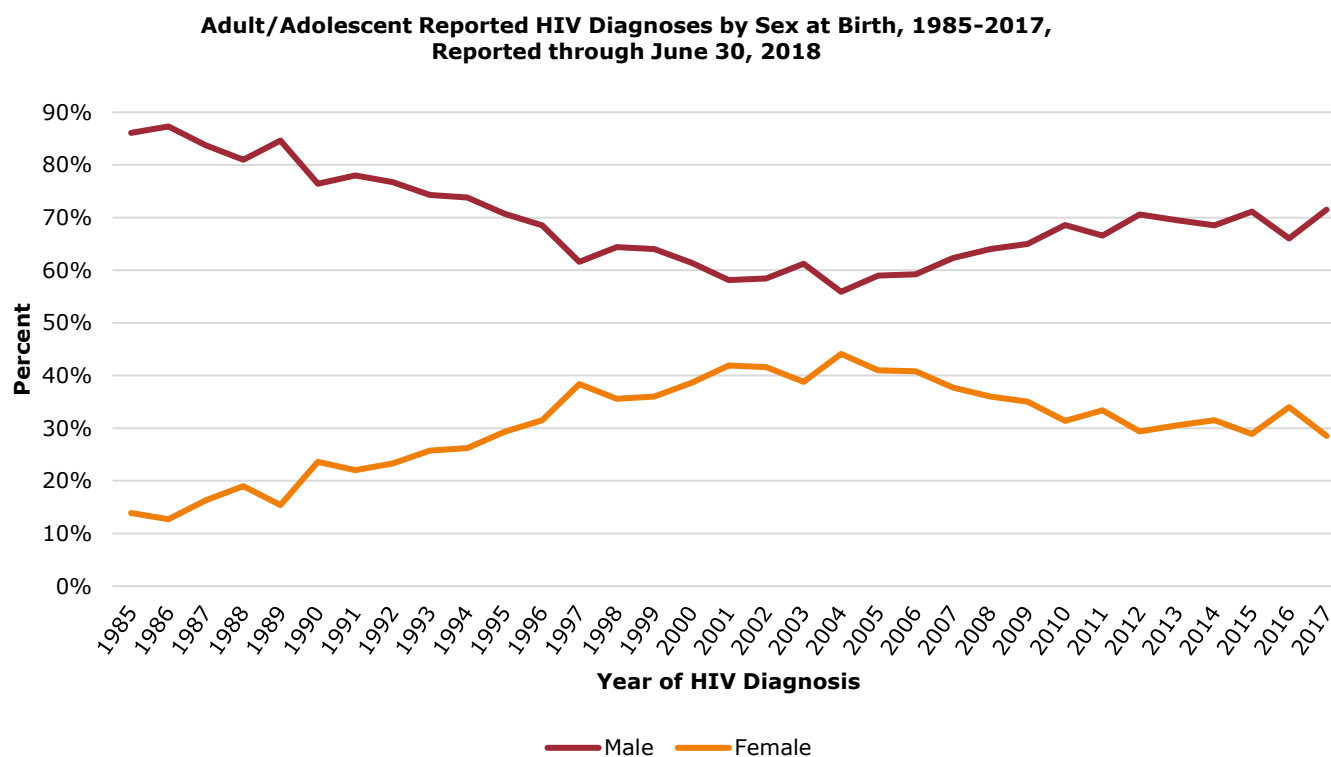
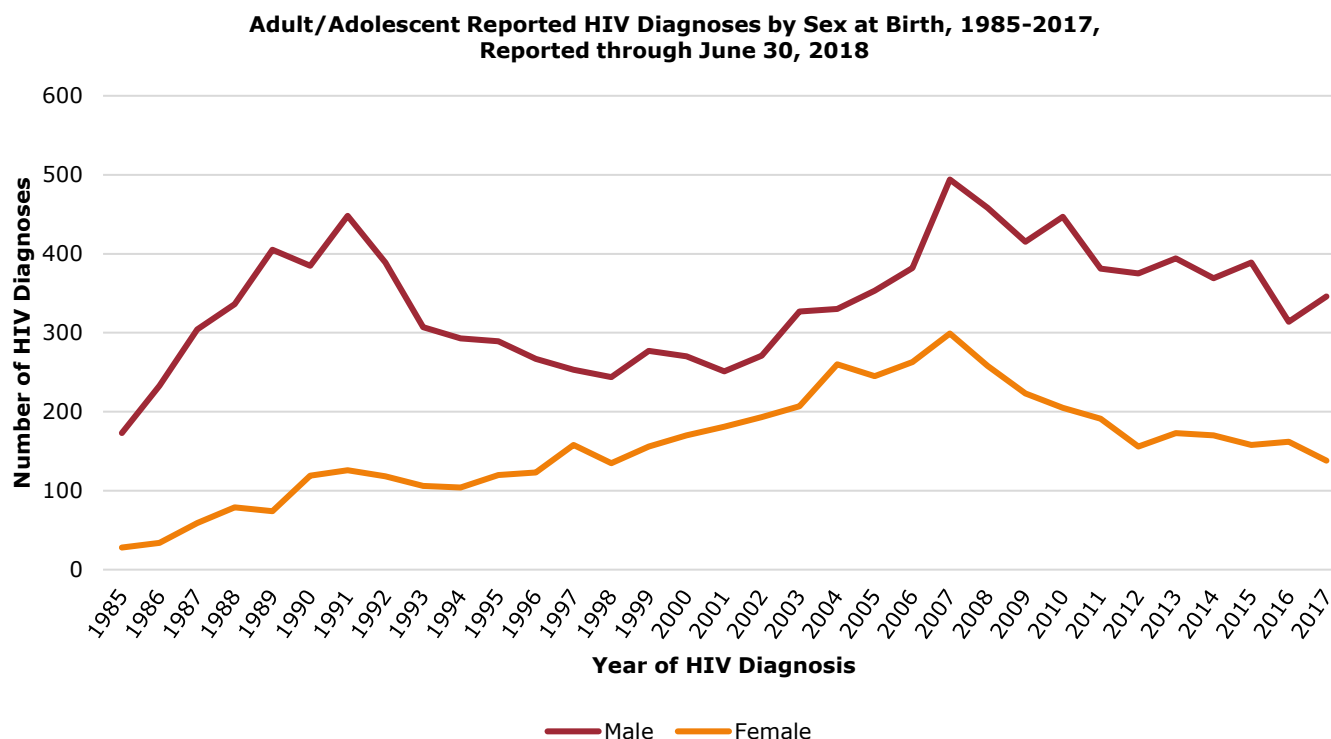
Reported HIV Cases with or without an AIDS Diagnosis and Not Reported to have Died as of December 31st of Each Year (Living HIV Cases without AIDS, Living HIV Cases with AIDS, and Total Living HIV Cases) from 1985 through 2017, as Reported through June 30, 2018



Year	Living HIV Cases without AIDS	Living HIV Cases with AIDS	Total Living HIV Cases	Year	Living HIV Cases without AIDS	Living HIV Cases with AIDS	Total Living HIV Cases
1985	181	63	244	2002	1,639	2,648	4,287
1986	337	106	443	2003	1,759	2,902	4,661
1987	522	189	711	2004	1,940	3,166	5,106
1988	728	284	1,012	2005	2,119	3,414	5,533
1989	951	391	1,342	2006	2,367	3,689	6,056
1990	1,168	507	1,675	2007	2,786	3,922	6,708
1991	1,380	653	2,033	2008	3,160	4,140	7,300
1992	1,447	862	2,309	2009	3,461	4,305	7,766
1993	1,385	1,033	2,418	2010	3,752	4,550	8,302
1994	1,291	1,208	2,499	2011	4,035	4,715	8,750
1995	1,208	1,328	2,536	2012	4,242	4,932	9,174
1996	1,178	1,450	2,628	2013	4,470	5,169	9,639
1997	1,234	1,639	2,873	2014	4,757	5,339	10,096
1998	1,292	1,814	3,106	2015	5,038	5,473	10,511
1999	1,363	2,008	3,371	2016	5,297	5,629	10,926
2000	1,451	2,225	3,676	2017	5,534	5,836	11,370
2001	1,539	2,426	3,965				

Figure 3 – Trends in Adult/Adolescent Reported HIV Diagnoses by Sex at Birth, among Residents at Diagnosis, 1985-2017, Reported through June 30, 2018

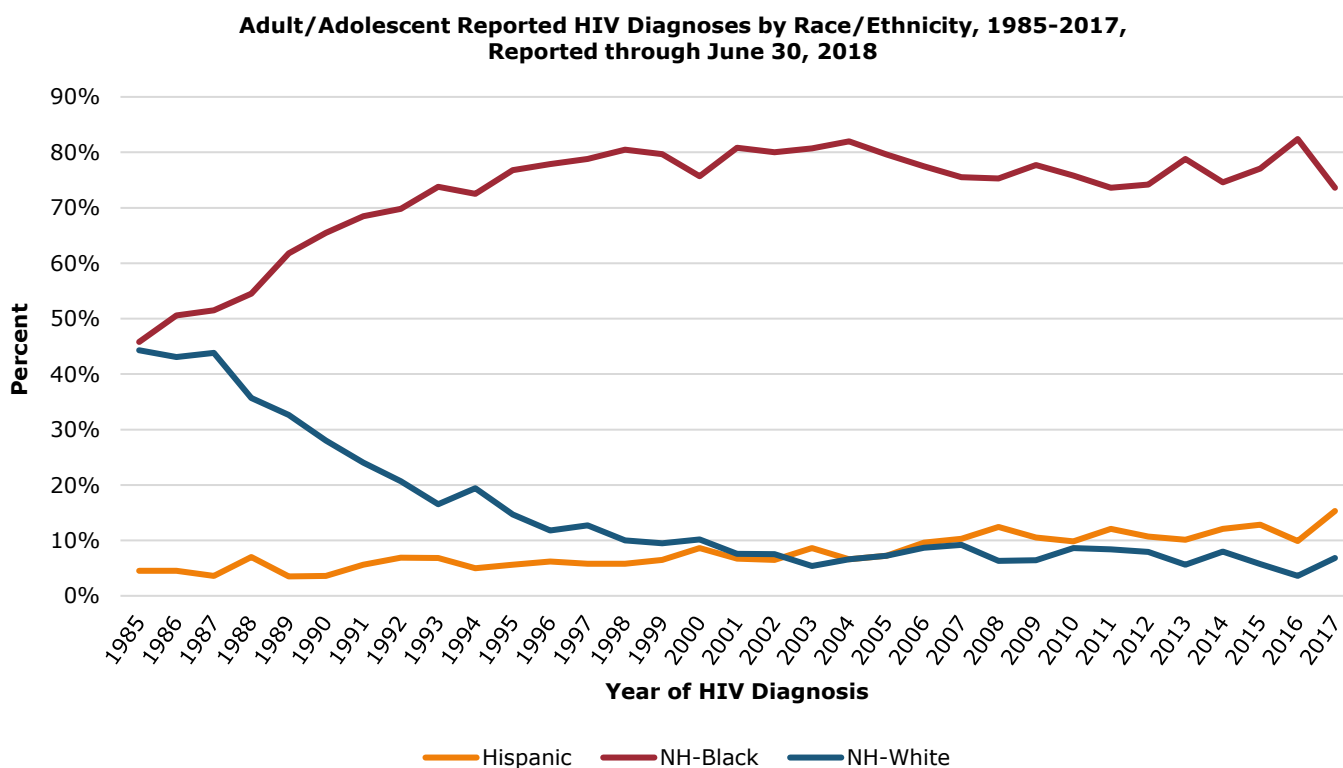
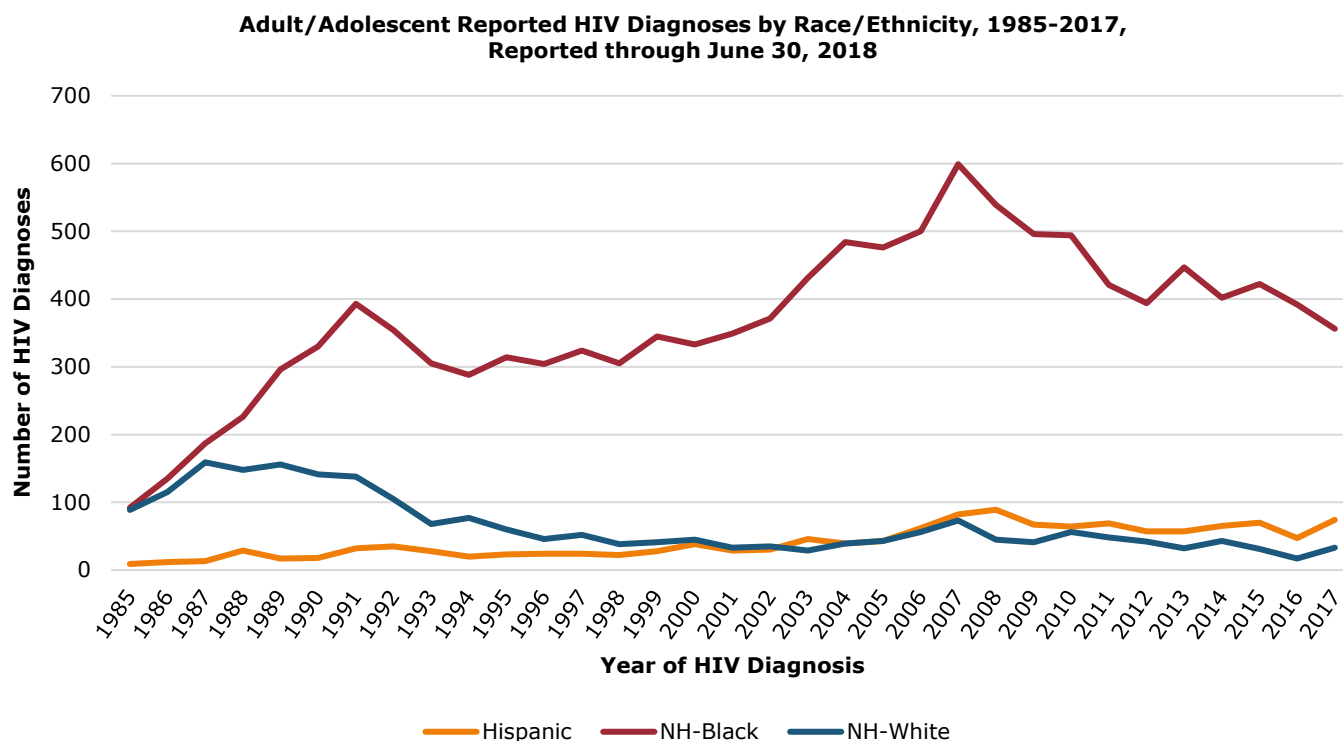
Number and Percent by Sex at Birth of Adult/Adolescent Reported HIV Cases, Age 13+ at HIV Diagnosis, with or without an AIDS Diagnosis (Adult/Adolescent Reported HIV Diagnoses) by Year of HIV Diagnosis from 1985 through 2017, as Reported through June 30, 2018



Adult/Adolescent Reported HIV Diagnoses					
Year of HIV Diagnosis	No.	Sex at Birth			
		Male		Female	
		No.	%	No.	%
<1985	108	97	89.8%	11	10.2%
1985	201	173	86.1%	28	13.9%
1986	267	233	87.3%	34	12.7%
1987	363	304	83.7%	59	16.3%
1988	415	336	81.0%	79	19.0%
1989	479	405	84.6%	74	15.4%
1990	504	385	76.4%	119	23.6%
1991	574	448	78.0%	126	22.0%
1992	507	389	76.7%	118	23.3%
1993	413	307	74.3%	106	25.7%
1994	397	293	73.8%	104	26.2%
1995	409	289	70.7%	120	29.3%
1996	390	267	68.5%	123	31.5%
1997	411	253	61.6%	158	38.4%
1998	379	244	64.4%	135	35.6%
1999	433	277	64.0%	156	36.0%
2000	440	270	61.4%	170	38.6%
2001	432	251	58.1%	181	41.9%
2002	464	271	58.4%	193	41.6%
2003	534	327	61.2%	207	38.8%
2004	590	330	55.9%	260	44.1%
2005	598	353	59.0%	245	41.0%
2006	645	382	59.2%	263	40.8%
2007	793	494	62.3%	299	37.7%
2008	716	458	64.0%	258	36.0%
2009	638	415	65.0%	223	35.0%
2010	652	447	68.6%	205	31.4%
2011	572	381	66.6%	191	33.4%
2012	531	375	70.6%	156	29.4%
2013	567	394	69.5%	173	30.5%
2014	539	369	68.5%	170	31.5%
2015	547	389	71.1%	158	28.9%
2016	476	314	66.0%	162	34.0%
2017	484	346	71.5%	138	28.5%
Total	16,468	11,266	68.4%	5,202	31.6%

Figure 4 – Trends in Adult/Adolescent Reported HIV Diagnoses by Race/Ethnicity, among Residents at Diagnosis, 1985-2017, Reported through June 30, 2018

Number and Percent by Race/Ethnicity of Adult/Adolescent Reported HIV Cases, Age 13+ at HIV Diagnosis, with or without an AIDS Diagnosis (Adult/Adolescent Reported HIV Diagnoses) by Year of HIV Diagnosis from 1985 through 2017, as Reported through June 30, 2018

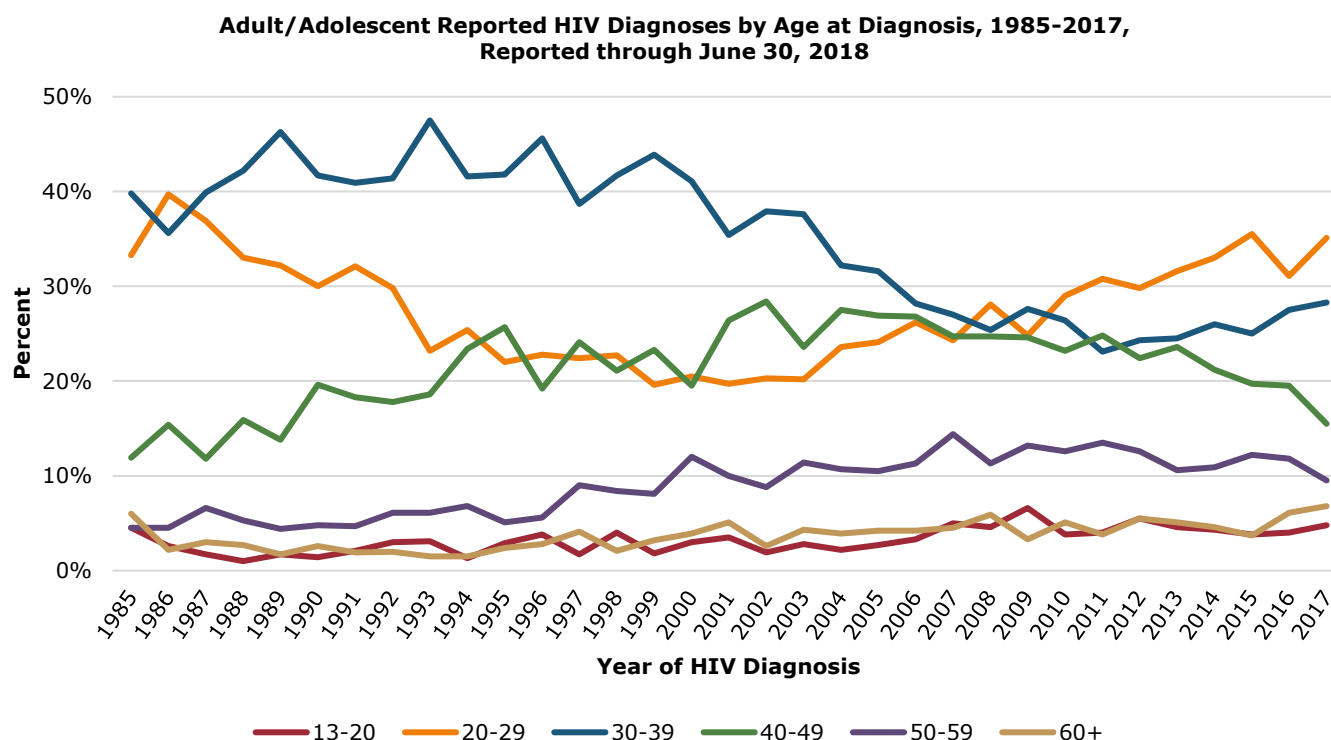
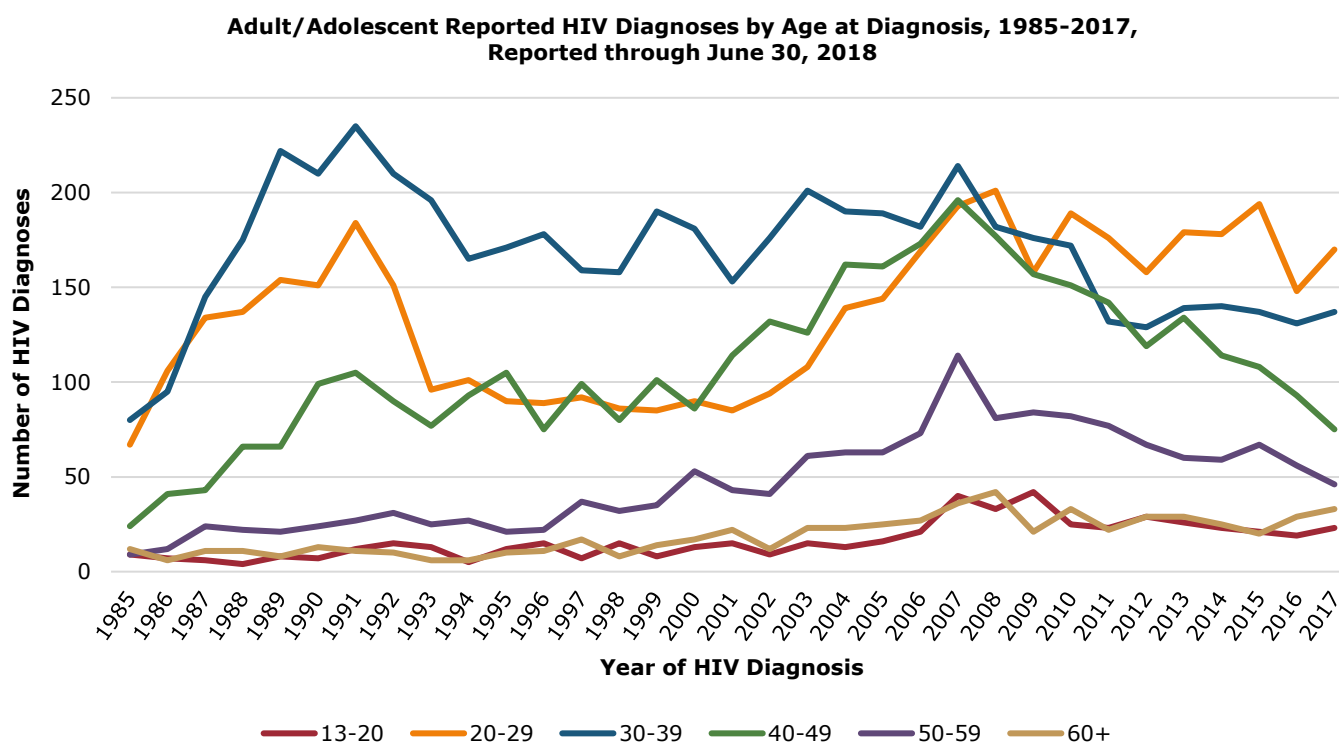


Non-Hispanic Other race not shown

Year of HIV Diagnosis	Adult/Adolescent Reported HIV Diagnoses								
	No.	Race/Ethnicity							
		Hispanic		Non-Hispanic Black, only		Non-Hispanic White, only		Non-Hispanic Other Race	
		No.	%	No.	%	No.	%	No.	%
<1985	108	3	2.8%	63	58.3%	37	34.3%	5	4.6%
1985	201	9	4.5%	92	45.8%	89	44.3%	11	5.5%
1986	267	12	4.5%	135	50.6%	115	43.1%	5	1.9%
1987	363	13	3.6%	187	51.5%	159	43.8%	4	1.1%
1988	415	29	7.0%	226	54.5%	148	35.7%	12	2.9%
1989	479	17	3.5%	296	61.8%	156	32.6%	10	2.1%
1990	504	18	3.6%	330	65.5%	141	28.0%	15	3.0%
1991	574	32	5.6%	393	68.5%	138	24.0%	11	1.9%
1992	507	35	6.9%	354	69.8%	105	20.7%	13	2.6%
1993	413	28	6.8%	305	73.8%	68	16.5%	12	2.9%
1994	397	20	5.0%	288	72.5%	77	19.4%	12	3.0%
1995	409	23	5.6%	314	76.8%	60	14.7%	12	2.9%
1996	390	24	6.2%	304	77.9%	46	11.8%	16	4.1%
1997	411	24	5.8%	324	78.8%	52	12.7%	11	2.7%
1998	379	22	5.8%	305	80.5%	38	10.0%	14	3.7%
1999	433	28	6.5%	345	79.7%	41	9.5%	19	4.4%
2000	440	38	8.6%	333	75.7%	45	10.2%	24	5.5%
2001	432	29	6.7%	349	80.8%	33	7.6%	21	4.9%
2002	464	30	6.5%	371	80.0%	35	7.5%	28	6.0%
2003	534	46	8.6%	431	80.7%	29	5.4%	28	5.2%
2004	590	39	6.6%	484	82.0%	39	6.6%	28	4.7%
2005	598	43	7.2%	476	79.6%	43	7.2%	36	6.0%
2006	645	62	9.6%	500	77.5%	56	8.7%	27	4.2%
2007	793	82	10.3%	599	75.5%	73	9.2%	39	4.9%
2008	716	89	12.4%	539	75.3%	45	6.3%	43	6.0%
2009	638	67	10.5%	496	77.7%	41	6.4%	34	5.3%
2010	652	64	9.8%	494	75.8%	56	8.6%	38	5.8%
2011	572	69	12.1%	421	73.6%	48	8.4%	34	5.9%
2012	531	57	10.7%	394	74.2%	42	7.9%	38	7.2%
2013	567	57	10.1%	447	78.8%	32	5.6%	31	5.5%
2014	539	65	12.1%	402	74.6%	43	8.0%	29	5.4%
2015	547	70	12.8%	422	77.1%	31	5.7%	24	4.4%
2016	476	47	9.9%	392	82.4%	17	3.6%	20	4.2%
2017	484	74	15.3%	356	73.6%	33	6.8%	21	4.3%
Total	16,468	1,365	8.3%	12,167	73.9%	2,211	13.4%	725	4.4%

Figure 5 – Trends in Adult/Adolescent Reported HIV Diagnoses by Age at Diagnosis, among Residents at Diagnosis, 1985-2017, Reported through June 30, 2018

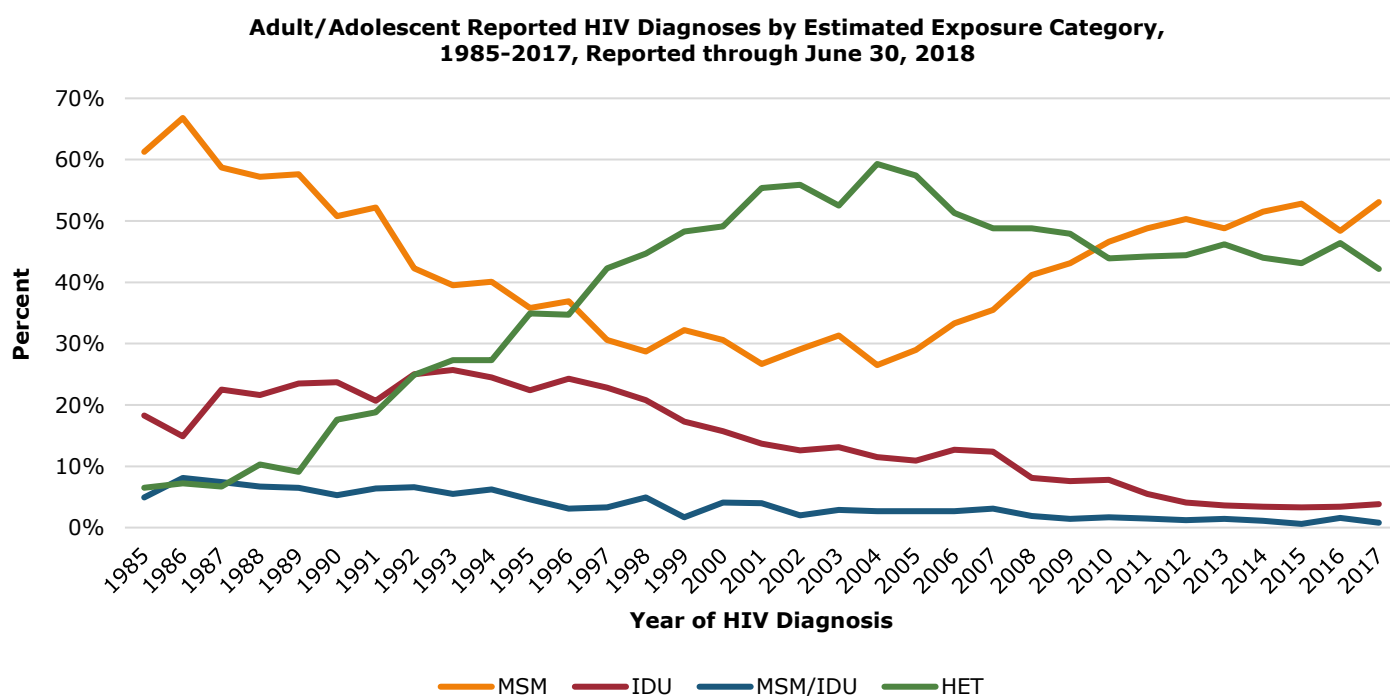
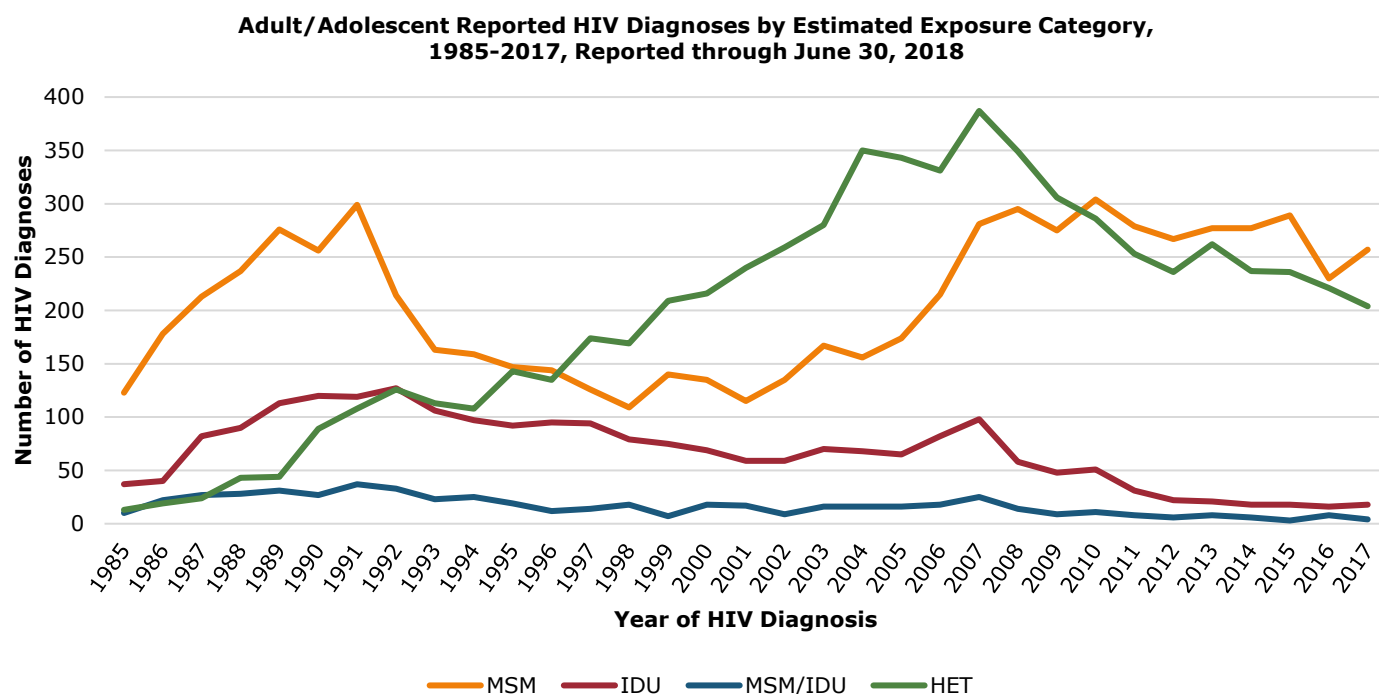
Number and Percent by Age at HIV Diagnosis of Adult/Adolescent Reported HIV Cases, Age 13+ at HIV Diagnosis, with or without an AIDS Diagnosis (Adult/Adolescent Reported HIV Diagnoses) by Year of HIV Diagnosis from 1985 through 2017, as Reported through June 30, 2018



Adult/Adolescent Reported HIV Diagnoses													
Year of HIV Diagnosis	No.	Age at HIV Diagnosis											
		Age 13-19		Age 20-29		Age 30-39		Age 40-49		Age 50-59		Age 60+	
		No.	%	No.	%	No.	%	No.	%	No.	%	No.	%
<1985	108	11	10.2%	38	35.2%	33	30.6%	19	17.6%	4	3.7%	3	2.8%
1985	201	9	4.5%	67	33.3%	80	39.8%	24	11.9%	9	4.5%	12	6.0%
1986	267	7	2.6%	106	39.7%	95	35.6%	41	15.4%	12	4.5%	6	2.2%
1987	363	6	1.7%	134	36.9%	145	39.9%	43	11.8%	24	6.6%	11	3.0%
1988	415	4	1.0%	137	33.0%	175	42.2%	66	15.9%	22	5.3%	11	2.7%
1989	479	8	1.7%	154	32.2%	222	46.3%	66	13.8%	21	4.4%	8	1.7%
1990	504	7	1.4%	151	30.0%	210	41.7%	99	19.6%	24	4.8%	13	2.6%
1991	574	12	2.1%	184	32.1%	235	40.9%	105	18.3%	27	4.7%	11	1.9%
1992	507	15	3.0%	151	29.8%	210	41.4%	90	17.8%	31	6.1%	10	2.0%
1993	413	13	3.1%	96	23.2%	196	47.5%	77	18.6%	25	6.1%	6	1.5%
1994	397	5	1.3%	101	25.4%	165	41.6%	93	23.4%	27	6.8%	6	1.5%
1995	409	12	2.9%	90	22.0%	171	41.8%	105	25.7%	21	5.1%	10	2.4%
1996	390	15	3.8%	89	22.8%	178	45.6%	75	19.2%	22	5.6%	11	2.8%
1997	411	7	1.7%	92	22.4%	159	38.7%	99	24.1%	37	9.0%	17	4.1%
1998	379	15	4.0%	86	22.7%	158	41.7%	80	21.1%	32	8.4%	8	2.1%
1999	433	8	1.8%	85	19.6%	190	43.9%	101	23.3%	35	8.1%	14	3.2%
2000	440	13	3.0%	90	20.5%	181	41.1%	86	19.5%	53	12.0%	17	3.9%
2001	432	15	3.5%	85	19.7%	153	35.4%	114	26.4%	43	10.0%	22	5.1%
2002	464	9	1.9%	94	20.3%	176	37.9%	132	28.4%	41	8.8%	12	2.6%
2003	534	15	2.8%	108	20.2%	201	37.6%	126	23.6%	61	11.4%	23	4.3%
2004	590	13	2.2%	139	23.6%	190	32.2%	162	27.5%	63	10.7%	23	3.9%
2005	598	16	2.7%	144	24.1%	189	31.6%	161	26.9%	63	10.5%	25	4.2%
2006	645	21	3.3%	169	26.2%	182	28.2%	173	26.8%	73	11.3%	27	4.2%
2007	793	40	5.0%	193	24.3%	214	27.0%	196	24.7%	114	14.4%	36	4.5%
2008	716	33	4.6%	201	28.1%	182	25.4%	177	24.7%	81	11.3%	42	5.9%
2009	638	42	6.6%	158	24.8%	176	27.6%	157	24.6%	84	13.2%	21	3.3%
2010	652	25	3.8%	189	29.0%	172	26.4%	151	23.2%	82	12.6%	33	5.1%
2011	572	23	4.0%	176	30.8%	132	23.1%	142	24.8%	77	13.5%	22	3.8%
2012	531	29	5.5%	158	29.8%	129	24.3%	119	22.4%	67	12.6%	29	5.5%
2013	567	26	4.6%	179	31.6%	139	24.5%	134	23.6%	60	10.6%	29	5.1%
2014	539	23	4.3%	178	33.0%	140	26.0%	114	21.2%	59	10.9%	25	4.6%
2015	547	21	3.8%	194	35.5%	137	25.0%	108	19.7%	67	12.2%	20	3.7%
2016	476	19	4.0%	148	31.1%	131	27.5%	93	19.5%	56	11.8%	29	6.1%
2017	484	23	4.8%	170	35.1%	137	28.3%	75	15.5%	46	9.5%	33	6.8%
Total	16,468	560	3.4%	4,534	27.5%	5,583	33.9%	3,603	21.9%	1,563	9.5%	625	3.8%

Figure 6 – Trends in Adult/Adolescent Reported HIV Diagnoses by Estimated Exposure Category, among Residents at Diagnosis, 1985-2017, Reported through June 30, 2018

Number and Percent by Estimated Exposure Category[§] of Adult/Adolescent Reported HIV Cases, Age 13+ at HIV Diagnosis, with or without an AIDS Diagnosis (Adult/Adolescent Reported HIV Diagnoses) by Year of HIV Diagnosis from 1985 through 2017, as Reported through June 30, 2018



Other exposure category not shown

§ Multiple imputation was used to estimate and adjust for missing transmission category.

Year of HIV Diagnosis	Adult/Adolescent Reported HIV Diagnoses											
	No.	% with No Reported Exposure [‡]	Estimated Exposure Category [§]									
			MSM		IDU		MSM/IDU		HET		Other Exposure	
			No.	%	No.	%	No.	%	No.	%	No.	%
<1985	108	11.1%	73	67.5%	15	14.2%	9	8.1%	8	7.4%	3	2.8%
1985	201	7.0%	123	61.3%	37	18.3%	10	4.9%	13	6.5%	18	9.0%
1986	267	3.4%	178	66.8%	40	14.9%	22	8.1%	19	7.2%	8	3.0%
1987	363	3.9%	213	58.7%	82	22.5%	27	7.4%	24	6.7%	17	4.7%
1988	415	6.3%	237	57.2%	90	21.6%	28	6.7%	43	10.3%	18	4.3%
1989	479	7.1%	276	57.6%	113	23.5%	31	6.5%	44	9.1%	16	3.3%
1990	504	5.6%	256	50.8%	120	23.7%	27	5.3%	89	17.6%	13	2.6%
1991	574	7.5%	299	52.2%	119	20.7%	37	6.4%	108	18.8%	11	1.9%
1992	507	11.4%	214	42.3%	127	25.0%	33	6.6%	126	24.9%	6	1.2%
1993	413	9.4%	163	39.5%	106	25.7%	23	5.5%	113	27.3%	8	1.9%
1994	397	9.8%	159	40.1%	97	24.5%	25	6.2%	108	27.3%	8	2.0%
1995	409	13.0%	147	35.8%	92	22.4%	19	4.6%	143	34.9%	9	2.2%
1996	390	16.2%	144	36.9%	95	24.3%	12	3.1%	135	34.7%	4	1.0%
1997	411	15.8%	126	30.6%	94	22.8%	14	3.3%	174	42.3%	4	1.0%
1998	379	17.4%	109	28.7%	79	20.8%	18	4.9%	169	44.7%	4	1.1%
1999	433	15.9%	140	32.2%	75	17.3%	7	1.7%	209	48.3%	2	0.5%
2000	440	19.8%	135	30.6%	69	15.7%	18	4.1%	216	49.1%	2	0.5%
2001	432	17.8%	115	26.7%	59	13.7%	17	4.0%	240	55.4%	1	0.2%
2002	464	13.1%	135	29.1%	59	12.6%	9	2.0%	259	55.9%	2	0.4%
2003	534	14.2%	167	31.3%	70	13.1%	16	2.9%	280	52.5%	1	0.2%
2004	590	20.2%	156	26.5%	68	11.5%	16	2.7%	350	59.3%	0	0.0%
2005	598	21.1%	174	29.0%	65	10.9%	16	2.7%	343	57.4%	0	0.0%
2006	645	29.1%	215	33.3%	82	12.7%	18	2.7%	331	51.3%	0	0.0%
2007	793	30.4%	281	35.5%	98	12.4%	25	3.1%	387	48.8%	2	0.3%
2008	716	38.3%	295	41.2%	58	8.1%	14	1.9%	349	48.8%	0	0.0%
2009	638	37.9%	275	43.1%	48	7.6%	9	1.4%	306	47.9%	0	0.0%
2010	652	39.4%	304	46.6%	51	7.8%	11	1.7%	286	43.9%	0	0.0%
2011	572	39.9%	279	48.8%	31	5.5%	8	1.5%	253	44.2%	0	0.0%
2012	531	27.1%	267	50.3%	22	4.1%	6	1.2%	236	44.4%	0	0.0%
2013	567	22.6%	277	48.8%	21	3.6%	8	1.4%	262	46.2%	0	0.0%
2014	539	21.9%	277	51.5%	18	3.4%	6	1.1%	237	44.0%	0	0.0%
2015	547	15.7%	289	52.8%	18	3.3%	3	0.6%	236	43.1%	1	0.2%
2016	476	20.2%	230	48.4%	16	3.4%	8	1.6%	221	46.4%	1	0.2%
2017	484	24.2%	257	53.1%	18	3.8%	4	0.8%	204	42.2%	1	0.2%
Total	16,468	20.0%	6,985	42.4%	2,249	13.7%	551	3.3%	6,520	39.6%	160	1.0%

§ Multiple imputation was used to estimate and adjust for missing transmission category

[‡]Percent with no reported exposure prior to multiple imputation adjustment

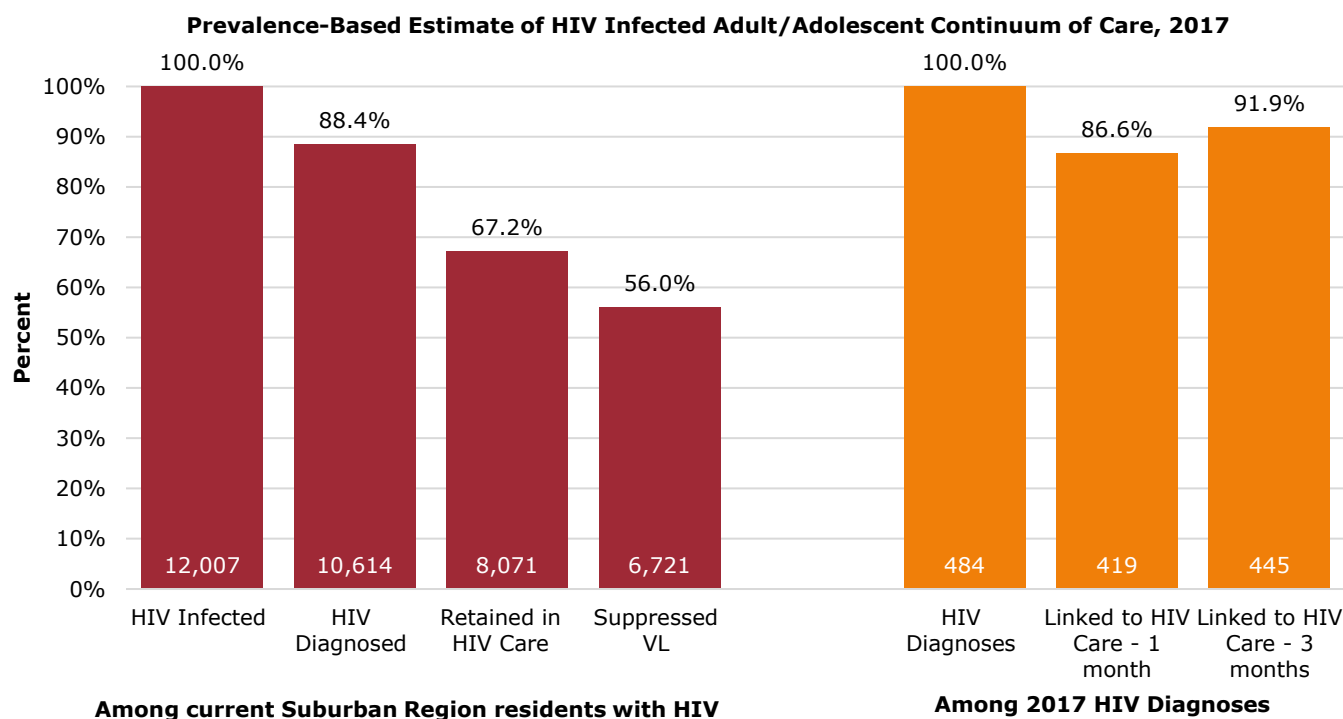
Note. Discrepancies in the table between total HIV diagnoses and the sums by exposure category are due to less than 1% of cases missing transmission category after multiple imputation

Section III – Continuum of Care Cascades

In their 2011 article in Clinical Infectious Diseases, Gardner et al.¹ utilize a continuum of care “cascade” to illustrate estimates of the number of persons living with HIV who belong to each of the stages of engagement in HIV care.

Figure 7 – Prevalence-Based Estimated Adult/Adolescent 2017 HIV Continuum of Care Cascades, Current Suburban Region Residents, Reported through June 30, 2018

The prevalence-based Suburban Region Engagement in HIV Care Cascade (below) applies the Centers for Disease Control and Prevention (CDC) CD4 depletion model to Maryland surveillance data, reported through June 30, 2018, to estimate the number of people living with undiagnosed HIV (11.6 percent) and the estimated number of HIV infected persons currently residing in Maryland. Maryland surveillance data is then used to describe the number and percentage of persons living with HIV in the Suburban Region on December 31, 2017 and the number and percentage of new HIV diagnoses in 2017 who belong to each of the stages of engagement in HIV care.



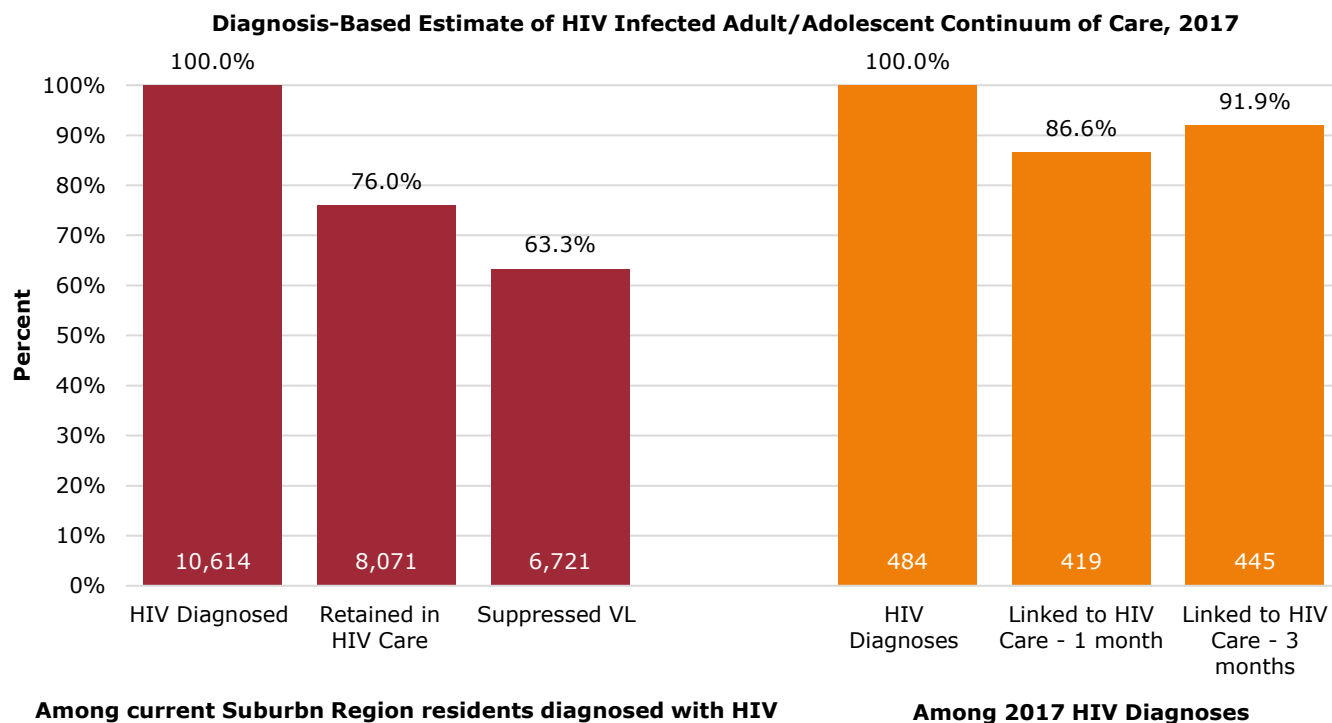
Continuum of Care Stage	Living HIV Cases		Continuum of Care Stage	New Diagnoses	
	Number	Percentage		Number	Percentage
HIV Infected	12,007	100.0%	New HIV Diagnoses	484	100.0%
HIV Diagnosed	10,614	88.4%	Linked to HIV Care – 1 Month	419	86.6%
Retained in HIV Care	8,071	67.2%	Linked to HIV Care – 3 Months	445	91.9%
Suppressed VL	6,721	56.0%			

¹ Gardner et al, “The Spectrum of Engagement in HIV Care and its Relevance to Test-and-Treat Strategies for Prevention of HIV Infection.” Clin Infect Dis. 2011; 52 (6): 793-800.

² Centers for Disease Control and Prevention. Estimated HIV incidence and prevalence in the United States, 2010–2015. HIV Surveillance Supplemental Report 2018;23(No. 1). <http://www.cdc.gov/hiv/library/reports/hiv-surveillance.html>. Published March 2018.

Figure 8 – Diagnosis-Based Estimated Adult/Adolescent 2017 HIV Continuum of Care Cascades, Current Suburban Region Residents, Reported through June 30, 2018

The diagnosis-based Suburban Region Engagement in HIV Care Cascade (below) uses Maryland surveillance data for current Suburban Region residents to describe the number and percentage of persons living with HIV in the Suburban Region on December 31, 2017 and the number and percentage of new HIV diagnoses in 2017 who belong to each of the stages of engagement in HIV care.



Continuum of Care Stage	Living HIV Cases		Continuum of Care Stage	New Diagnoses	
	Number	Percentage		Number	Percentage
HIV Diagnosed	10,614	100.0%	New HIV Diagnoses	484	100.0%
Retained in HIV Care	8,071	76.0%	Linked to HIV Care – 1 Month	419	86.6%
Suppressed VL	6,721	63.3%	Linked to HIV Care – 3 Months	445	91.9%

Section IV – Adult/Adolescent Cases by Jurisdiction

Table 1 – Adult/Adolescent HIV Diagnoses during 2017, Linked to Care, Late Diagnosis, and First CD4 Test Result by Jurisdiction of Residence at HIV Diagnosis, Reported through June 30, 2018

Jurisdiction of Residence at HIV Diagnosis	Population Age 13+	Adult/Adolescent Reported HIV Diagnoses							
		No.	% of Total	Rate	Linked to Care		Late HIV Diagnoses	First CD4 Test Result	
					% 1 mo.	% 3 mo.		%	Median Count
Montgomery	882,259	164	33.9%	18.6	81.7%	88.4%	29.9%	92.1%	353
Prince George's	763,442	320	66.1%	41.9	89.1%	93.8%	31.6%	91.9%	330
Total	1,645,702	484	100.0%	29.4	86.6%	91.9%	31.0%	91.9%	338

Table 2 – Adult/Adolescent AIDS Diagnoses during 2017, Mean Years from HIV Diagnosis and Percent Late HIV Diagnosis, by Jurisdiction of Residence at AIDS Diagnosis, Reported through June 30, 2018

Jurisdiction of Residence at AIDS Diagnosis	Population Age 13+	Adult/Adolescent Reported AIDS Diagnoses				
		No.	% of Total	Rate	Mean Years from HIV Diagnosis	% Late HIV Diagnosis
Montgomery	882,259	59	24.3%	6.7	2.6	74.6%
Prince George's	763,442	184	75.7%	24.1	4.1	56.0%
Total	1,645,702	243	100.0%	14.8	3.7	60.5%

Table 3 – Adult/Adolescent HIV Cases Alive on December 31, 2017, by Jurisdiction of Residence at Diagnosis, Reported through June 30, 2018

Jurisdiction of Residence at Diagnosis	Population Age 13+	Adult/Adolescent Living HIV Cases without AIDS			Adult/Adolescent Living HIV Cases with AIDS			Adult/Adolescent Total Living HIV Cases			
		No.	% of Total	Rate	No.	% of Total	Rate	No.	% of Total	Rate	Ratio (1 in X)
Montgomery	882,259	1,896	34.4%	214.9	2,035	34.9%	230.7	3,931	34.6%	445.6	224
Prince George's	763,442	3,620	65.6%	474.2	3,798	65.1%	497.5	7,418	65.4%	971.7	102
Total	1,645,702	5,516	100.0%	335.2	5,833	100.0%	354.4	11,349	100.0%	689.6	145

Table 4 – Adult/Adolescent HIV Cases Alive on December 31, 2017, by Jurisdiction of Residence at Diagnosis and Current Residence, Reported through June 30, 2018

Jurisdiction of Residence	Population Age 13+	Adult/Adolescent Total Living HIV Cases								
		Residence at Diagnosis				Current Residence				% Change
		No.	% of Total	Rate	Ratio (1 in X)	No.	% of Total	Rate	Ratio (1 in X)	
Montgomery	882,259	3,931	34.6%	445.6	224	3,253	30.6%	368.7	271	-17.2%
Prince George's	763,442	7,418	65.4%	971.7	102	7,361	69.4%	964.2	103	-0.8%
Total	1,645,702	11,349	100.0%	689.6	145	10,614	100.0%	645.0	155	-6.5%

Table 5 – CD4 Test Results during 2017 for Adult/Adolescent HIV Cases Alive on December 31, 2017, by Jurisdiction of Current Residence, Reported through June 30, 2018

Jurisdiction of Current Residence	Adult/Adolescent Total Living HIV Cases							
	No.	Recent CD4 Test Result						
		No. with Test	% with Test	Median Count	<200	200-349	350-499	500+
Montgomery	3,253	2,345	72.1%	585	8.0%	11.6%	18.8%	61.6%
Prince George’s	7,361	5,445	74.0%	581	9.1%	12.6%	17.8%	60.6%
Total	10,614	7,790	73.4%	582	8.8%	12.3%	18.1%	60.9%

Table 6 – Viral Load Test Results during 2017 for Adult/Adolescent HIV Cases Alive on December 31, 2017, by Jurisdiction of Current Residence, Reported through June 30, 2018

Jurisdiction of Current Residence	Adult/Adolescent Total Living HIV Cases					
	No.	Recent Viral Load Test Result				Median Unsuppressed
		No. with Test	% with Test	% Suppressed		
Montgomery	3,253	2,359	72.5%	88.1%		7,895
Prince George's	7,361	5,493	74.6%	84.5%		14,157
Total	10,614	7,852	74.0%	85.6%		12,692

Section V – Cases by Age

Table 7 – HIV Diagnoses during 2017, Linked to Care, Late Diagnosis, and First CD4 Test Result by Age at HIV Diagnosis, Reported through June 30, 2018

Age at HIV Diagnosis	Population	Reported HIV Diagnoses							
		No.	% of Total	Rate	Linked to Care		Late HIV Diagnoses	First CD4 Test Result	
					% 1 mo.	% 3 mo.		%	Median Count
<5 (Pediatric)	126,122	0	0.0%	0.0	--	--	--	--	--
5-12 (Pediatric)	199,742	1	0.2%	0.5	***	***	***	***	***
13-19	173,028	23	4.7%	13.3	***	***	***	***	***
20-29	258,873	170	35.1%	65.7	85.9%	90.6%	18.2%	91.2%	381
30-39	276,408	137	28.2%	49.6	92.7%	95.6%	35.0%	90.5%	314
40-49	267,317	75	15.5%	28.1	84.0%	92.0%	45.3%	94.7%	254
50-59	276,813	46	9.5%	16.6	84.8%	91.3%	43.5%	95.7%	305
60+	393,263	33	6.8%	8.4	69.7%	81.8%	36.4%	84.8%	286
Total	1,971,566	485	100.0%	24.6	86.4%	92.0%	30.9%	92.0%	338

*** Data withheld due to low population counts and/or case counts

Table 8 – HIV Cases Alive on December 31, 2017, by Age on December 31, 2017, Reported through June 30, 2018

Age on December 31, 2017	Population	Total Living HIV Cases				
		No.	% of Total	% Living with AIDS	Rate	Ratio (1 in X)
<5	126,122	3	0.0%	0.0%	2.4	42,040
5-12	199,742	29	0.3%	17.2%	14.5	6,887
13-19	173,028	85	0.8%	29.4%	49.1	2,035
20-29	258,873	1,220	11.5%	24.6%	471.3	212
30-39	276,408	2,285	21.5%	38.9%	826.7	120
40-49	267,317	2,702	25.4%	55.7%	1,010.8	98
50-59	276,813	2,757	25.9%	60.6%	996.0	100
60+	393,263	1,565	14.7%	61.4%	398.0	251
Total	1,971,566	10,646	100.0%	50.3%	540.0	185

Table 9 – CD4 Test Results during 2017 for Adult/Adolescent HIV Cases Alive on December 31, 2017, by Age on December 31, 2017, Reported through June 30, 2018

Age on December 31, 2017	Adult/Adolescent Total Living HIV Cases							
	No.	Recent CD4 Test Results						
		No. with Test	% with Test	Median Count	<200	200-349	350-499	500+
13-19	85	67	78.8%	530	9.0%	10.4%	19.4%	61.2%
20-29	1,220	864	70.8%	599	7.2%	11.5%	17.9%	63.4%
30-39	2,285	1,608	70.4%	580	9.6%	10.9%	18.2%	61.4%
40-49	2,702	1,981	73.3%	570	9.7%	12.7%	18.9%	58.8%
50-59	2,757	2,078	75.4%	595	8.8%	12.7%	16.7%	61.9%
60+	1,565	1,192	76.2%	579	7.2%	13.5%	19.2%	60.1%
Total	10,614	7,790	73.4%	582	8.8%	12.3%	18.1%	60.9%

Table 10 – Viral Load Test Results during 2017 for Adult/Adolescent HIV Cases Alive on December 31, 2017, by Age on December 31, 2017, Reported through June 30, 2018

Age on December 31, 2017	Adult/Adolescent Total Living HIV Cases				
	No.	Recent Viral Load Test Result			Median Unsuppressed
		No. with Test	% with Test	% Suppressed	
13-19	85	72	84.7%	63.9%	13,966
20-29	1,220	872	71.5%	72.7%	17,882
30-39	2,285	1,627	71.2%	83.2%	13,325
40-49	2,702	1,994	73.8%	86.5%	9,530
50-59	2,757	2,097	76.1%	88.7%	10,017
60+	1,565	1,190	76.0%	92.4%	5,549
Total	10,614	7,852	74.0%	85.6%	12,692

Section VI – Adult/Adolescent Cases by Demographics

Table 11 – Adult/Adolescent HIV Diagnoses during 2017, Linked to Care, Late Diagnosis, and First CD4 Test Result by Sex at Birth, Gender, Race/Ethnicity, and Country of Birth, Reported through June 30, 2018

Demographic Characteristics	Population Age 13+	Adult/Adolescent Reported HIV Diagnoses							
		No.	% of Total	Rate	Linked to Care		Late HIV Diagnoses	First CD4 Test Result	
					% 1 mo.	% 3 mo.	%	%	Median Count
Sex at Birth									
Male	785,195	346	71.5%	44.1	87.6%	92.2%	30.3%	92.2%	345
Female	860,507	138	28.5%	16.0	84.1%	91.3%	32.6%	91.3%	337
Gender									
Male	--	345	71.3%	--	***	***	***	***	***
Female	--	138	28.5%	--	***	***	***	***	***
Transgender Female	--	1	0.2%	--	***	***	***	***	***
Transgender Male	--	0	0.0%	--	--	--	--	--	--
Another Gender Identity	--	0	0.0%	--	--	--	--	--	--
Race/Ethnicity									
Hispanic	283,358	74	15.3%	26.1	87.8%	91.9%	37.8%	89.2%	315
Non-Hispanic	1,362,344	410	84.7%	30.1	86.3%	92.0%	29.8%	92.4%	343
American Indian/Alaska Native, only	3,396	0	0.0%	0.0	--	--	--	--	--
Asian, only	175,314	8	1.7%	4.6	87.5%	87.5%	***	100.0%	325
Black, only	642,657	356	73.6%	55.4	86.8%	92.4%	29.2%	92.1%	338
Native Hawaiian/Other Pacific Islander, only	771	0	0.0%	0.0	--	--	--	--	--
White, only	508,933	33	6.8%	6.5	84.8%	90.9%	30.3%	90.9%	403
Multiracial/Other	31,273	13	2.7%	41.6	76.9%	84.6%	***	100.0%	254
Total	1,645,702	484	100.0%	29.4	86.6%	91.9%	31.0%	91.9%	338
Country of Birth									
United States	504,200	347	71.7%	68.8	86.5%	90.5%	31.4%	91.6%	341
Foreign-Born	1,097,006	102	21.1%	9.3	85.3%	95.1%	34.3%	93.1%	319
Africa	--	78	16.1%	--	85.9%	96.2%	34.6%	93.6%	310
Asia	--	3	0.6%	--	***	***	***	***	***
Caribbean	--	5	1.0%	--	***	***	***	***	***
Central America	--	14	2.9%	--	85.7%	92.9%	42.9%	92.9%	347
Other	--	2	0.4%	--	***	***	***	***	***
Unknown	--	35	7.2%	--	91.4%	97.1%	17.1%	91.4%	400
Total	1,601,206	484	100.0%	30.2	86.6%	91.9%	31.0%	91.9%	338

Note. Population data by sex at birth, age, and race/ethnicity are from the 2017 U.S. Census population estimates. Population data by gender are unavailable. Population data by country of birth are from the 2016 American Community Survey.

*** Data withheld due to low population and/or case counts

Table 12 – Adult/Adolescent Living HIV Cases Alive on December 31, 2017, by Sex at Birth, Gender, Race/Ethnicity, and Country of Birth, Reported through June 30, 2018

Demographic Characteristics	Population Age 13+	Adult/Adolescent Total Living HIV Cases				
		No.	% of Total	% Living with AIDS	Rate	Ratio (1 in X)
Sex at Birth						
Male	785,195	6,966	65.6%	49.6%	887.2	112
Female	860,507	3,648	34.4%	51.9%	423.9	235
Gender						
Male	--	6,908	65.1%	49.6%	--	--
Female	--	3,646	34.4%	51.9%	--	--
Transgender Female	--	58	0.5%	48.3%	--	--
Transgender Male	--	2	0.0%	100.0%	--	--
Another Gender Identity	--	0	0.0%	0.0%	--	--
Race/Ethnicity						
Hispanic	283,358	1,055	9.9%	53.7%	372.3	268
Non-Hispanic	1,362,344	9,559	90.1%	50.0%	701.7	142
American Indian/Alaska Native, only	3,396	6	0.1%	0.0%	176.7	565
Asian, only	175,314	***	***	***	***	***
Black, only	642,657	8,127	76.6%	50.4%	1,264.6	79
Native Hawaiian/Other Pacific Islander, only	771	***	***	***	***	***
White, only	508,933	803	7.6%	43.7%	157.8	633
Multiracial/Other	31,273	526	5.0%	57.0%	1,682.0	59
Total	1,645,702	10,614	100.0%	50.4%	645.0	155
Country of Birth						
United States	504,200	8,304	78.2%	50.4%	1,647.0	60
Foreign-Born	1,097,006	1,968	18.5%	53.8%	179.4	557
Africa	--	1,335	12.6%	53.6%	--	--
Asia	--	70	0.7%	41.4%	--	--
Caribbean	--	120	1.1%	48.3%	--	--
Central America	--	302	2.8%	63.6%	--	--
Other	--	141	1.3%	46.1%	--	--
Unknown	--	342	3.2%	31.6%	--	--
Total	1,601,206	10,614	100.0%	50.4%	662.9	150

Note. Population data by sex at birth, age, and race/ethnicity are from the 2017 U.S. Census population estimates. Population data by gender are unavailable. Population data by country of birth are from the 2016 American Community Survey.

*** Data withheld due to low population and/or case counts

Table 13 – CD4 Test Results during 2017 for Adult/Adolescent HIV Cases Alive on December 31, 2017, by Sex at Birth, Gender, Race/Ethnicity and Country of Birth, Reported through June 30, 2018

Demographic Characteristics	Adult/Adolescent Total Living HIV Cases							
	No.	Recent CD4 Test Result						
		No. with Test	% with Test	Median Count	<200	200-349	350-499	500+
Sex at Birth								
Male	6,966	5,064	72.7%	564	8.9%	13.2%	18.8%	59.0%
Female	3,648	2,726	74.7%	617	8.4%	10.5%	16.8%	64.3%
Gender								
Male	6,908	***	***	***	***	***	***	***
Female	3,646	***	***	***	***	***	***	***
Transgender Female	58	***	***	***	***	***	***	***
Transgender Male	2	***	***	***	***	***	***	***
Another Gender Identity	0	--	--	--	--	--	--	--
Race/Ethnicity								
Hispanic	1,055	805	76.3%	559	8.8%	12.8%	21.4%	57.0%
Non-Hispanic	9,559	6,985	73.1%	584	8.7%	12.2%	17.7%	61.3%
American Indian/Alaska Native, only	***	***	***	***	***	***	***	***
Asian, only	96	67	69.8%	525	9.0%	13.4%	25.4%	52.2%
Black, only	8,127	5,948	73.2%	577	9.1%	12.4%	18.0%	60.4%
Native Hawaiian/Other Pacific Islander, only	***	***	***	***	***	***	***	***
White, only	803	560	69.7%	658	4.6%	8.6%	14.8%	72.0%
Multiracial/Other	526	405	77.0%	596	8.6%	14.1%	15.6%	61.7%
Country of Birth								
United States	8,304	6,125	73.8%	587	8.9%	12.2%	17.4%	61.4%
Foreign-Born	1,968	1,450	73.7%	564	8.2%	12.2%	21.2%	58.3%
Africa	1,335	970	72.7%	553	8.6%	13.3%	20.9%	57.2%
Asia	70	55	78.6%	617	5.5%	7.3%	21.8%	65.5%
Caribbean	120	91	75.8%	663	7.7%	7.7%	13.2%	71.4%
Central America	302	225	74.5%	520	9.3%	13.3%	25.3%	52.0%
Other	141	109	77.3%	643	4.6%	6.4%	22.0%	67.0%
Unknown	342	215	62.9%	594	7.4%	14.4%	15.3%	62.8%
Total	10,614	7,790	73.4%	582	8.8%	12.3%	18.1%	60.9%

*** Data withheld due to low population and/or case counts

Table 14 – Viral Load Test Results during 2017 for Adult/Adolescent HIV Cases Alive on December 31, 2017, by Sex at Birth, Gender, Race/Ethnicity and Country of Birth, Reported through June 30, 2018

Demographic Characteristics	Adult/Adolescent Total Living HIV Cases				
	No.	Recent Viral Load Test Result			Median Unsuppressed
		No. with Test	% with Test	% Suppressed	
Sex at Birth					
Male	6,966	5,088	73.0%	85.6%	13,970
Female	3,648	2,764	75.8%	85.6%	10,280
Gender					
Male	6,908	***	***	***	***
Female	3,646	***	***	***	***
Transgender Female	58	***	***	***	***
Transgender Male	2	***	***	***	***
Another Gender Identity	0	--	--	--	--
Race/Ethnicity					
Hispanic	1,055	808	76.6%	87.9%	6,828
Non-Hispanic	9,559	7,044	73.7%	85.3%	13,003
American Indian/Alaska Native, only	***	***	***	***	***
Asian, only	96	69	71.9%	91.3%	444,500
Black, only	8,127	6,000	73.8%	84.4%	12,603
Native Hawaiian/Other Pacific Islander, only	***	***	***	***	***
White, only	803	567	70.6%	93.7%	32,986
Multiracial/Other	526	403	76.6%	86.4%	11,100
Country of Birth					
United States	8,304	6,168	74.3%	84.8%	12,550
Foreign-Born	1,968	1,466	74.5%	89.1%	11,589
Africa	1,335	988	74.0%	88.5%	9,905
Asia	70	54	77.1%	87.0%	26,665
Caribbean	120	91	75.8%	91.2%	4,665
Central America	302	227	75.2%	89.0%	31,051
Other	141	106	75.2%	94.3%	34,042
Unknown	342	218	63.7%	85.3%	24,377
Total	10,614	7,852	74.0%	85.6%	12,692

*** Data withheld due to low population and/or case counts

Section VII – HIV Cases by Expanded Demographics

Figure 9 – Population Pyramids of Total Living HIV Cases by Current Age, Sex at Birth, and Race/Ethnicity, Alive on December 31, 2017 and Reported through June 30, 2018

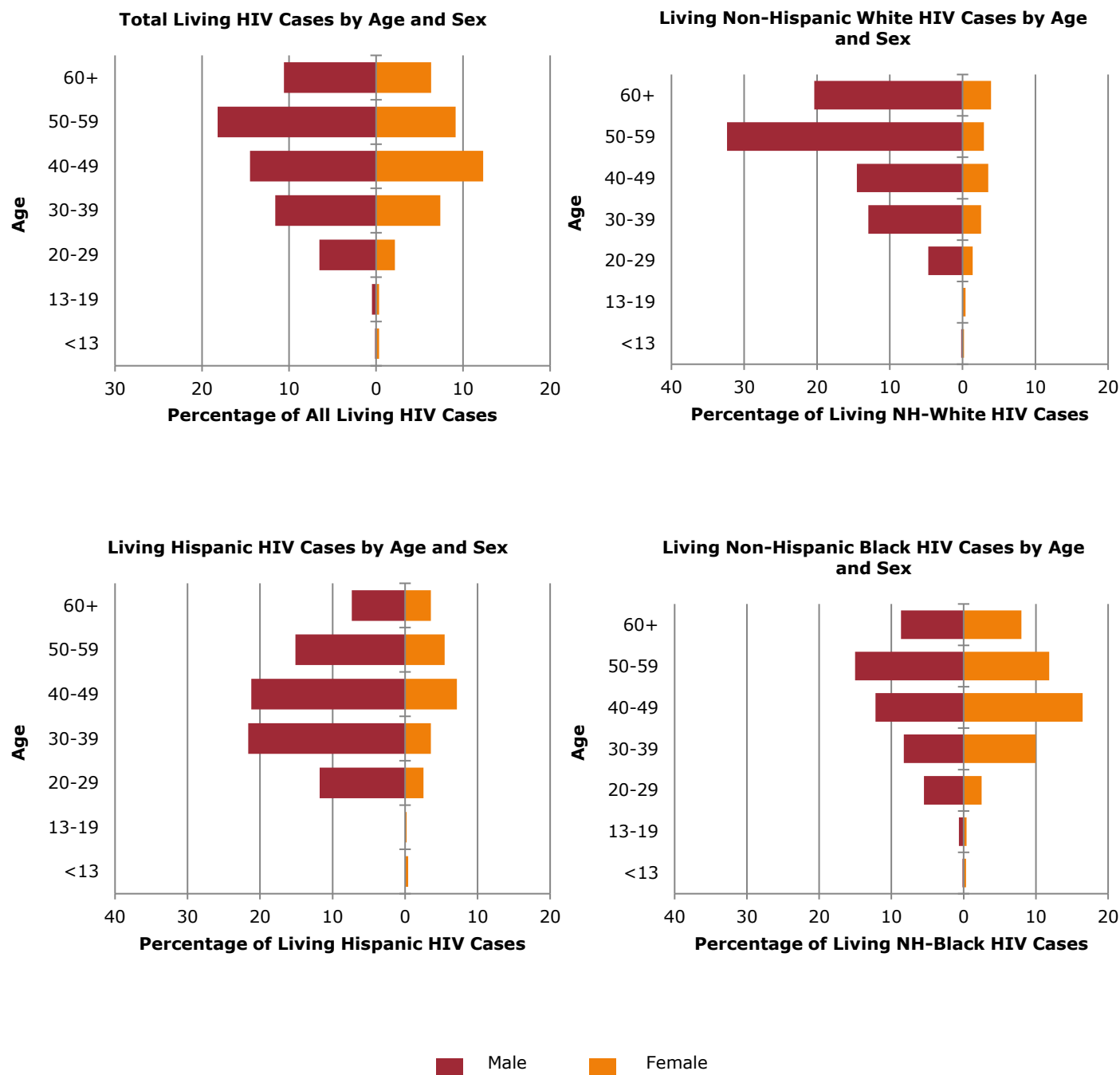


Table 15 – Total Living Male HIV Cases by Current Age and Race/Ethnicity, Alive on December 31, 2017 and Reported through June 30, 2018

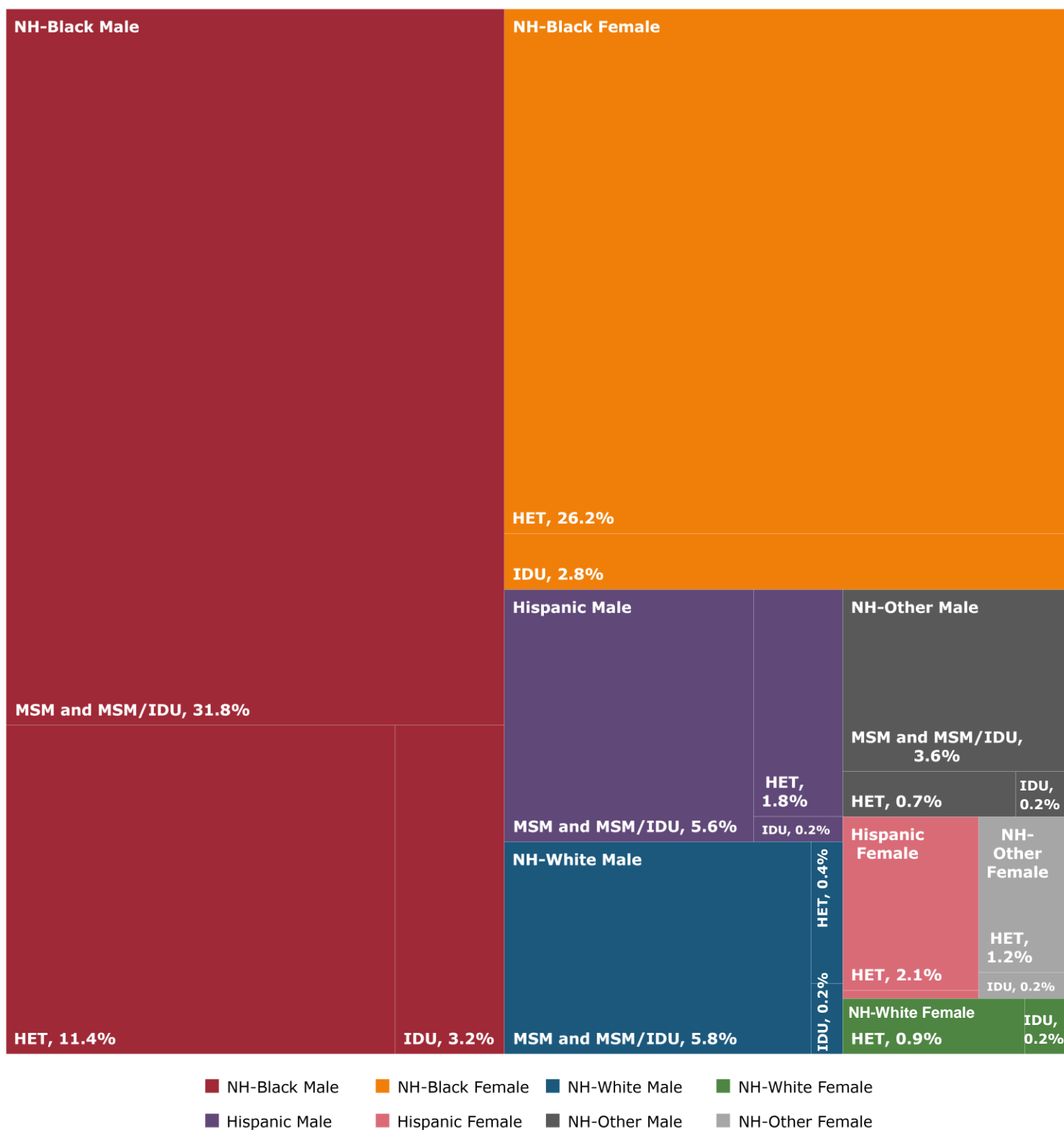
Total Living Male HIV Cases						
Age on December 31, 2017		Race/Ethnicity				Total Males by Age Group
		Hispanic	Non-Hispanic Black, only	Non-Hispanic White, only	Non-Hispanic Other Race	
<13 (Pediatric)	Population	47,635	59,810	36,105	22,642	166,191
	Cases	2	9	1	0	12
	Rate	4.2	15.0	2.8	0.0	7.2
	Ratio (1 in X)	23,817	6,645	36,105	--	13,849
13-19	Population	20,622	33,151	23,059	11,521	88,354
	Cases	2	50	0	3	55
	Rate	9.7	150.8	0.0	26.0	62.2
	Ratio (1 in X)	10,311	663	--	3,840	1,606
20-29	Population	29,397	52,193	32,666	16,534	130,790
	Cases	132	756	36	53	977
	Rate	449.0	1,448.5	110.2	320.6	747.0
	Ratio (1 in X)	222	69	907	311	133
30-39	Population	35,761	48,604	34,140	17,560	136,065
	Cases	234	1,168	96	108	1,606
	Rate	654.3	2,403.1	281.2	615.0	1,180.3
	Ratio (1 in X)	152	41	355	162	84
40-49	Population	30,100	47,977	33,860	16,511	128,448
	Cases	233	1,081	135	118	1,567
	Rate	774.1	2,253.2	398.7	714.7	1,219.9
	Ratio (1 in X)	129	44	250	139	81
50-59	Population	18,809	51,446	44,998	14,900	130,153
	Cases	152	1,265	256	129	1,802
	Rate	808.1	2,458.9	568.9	865.8	1,384.5
	Ratio (1 in X)	123	40	175	115	72
60+	Population	13,660	58,789	78,120	20,816	171,385
	Cases	65	664	163	67	959
	Rate	475.8	1,129.5	208.7	321.9	559.6
	Ratio (1 in X)	210	88	479	310	178
Total Males by Race/Ethnicity	Population	195,984	351,970	282,948	120,484	951,386
	Cases	820	4,993	687	478	6,978
	Rate	418.4	1,418.6	242.8	396.7	733.5
	Ratio (1 in X)	239	70	411	252	136

Table 16 – Total Living Female HIV Cases by Current Age and Race/Ethnicity, Alive on December 31, 2017 and Reported through June 30, 2018

Total Living Female HIV Cases						
Age on December 31, 2017		Race/Ethnicity				Total Females by Age Group
		Hispanic	Non-Hispanic Black, only	Non-Hispanic White, only	Non-Hispanic Other Race	
<13 (Pediatric)	Population	45,440	58,359	34,415	21,460	159,673
	Cases	2	15	1	2	20
	Rate	4.4	25.7	2.9	9.3	12.5
	Ratio (1 in X)	22,719	3,890	34,415	10,729	7,983
13-19	Population	18,827	32,970	21,724	11,152	84,674
	Cases	2	26	2	0	30
	Rate	10.6	78.9	9.2	0.0	35.4
	Ratio (1 in X)	9,413	1,268	10,862	--	2,822
20-29	Population	25,589	54,869	30,835	16,790	128,083
	Cases	22	206	8	7	243
	Rate	86.0	375.4	25.9	41.7	189.7
	Ratio (1 in X)	1,163	266	3,854	2,398	527
30-39	Population	29,522	55,948	34,507	20,366	140,343
	Cases	47	581	19	32	679
	Rate	159.2	1,038.5	55.1	157.1	483.8
	Ratio (1 in X)	628	96	1,816	636	206
40-49	Population	25,333	58,215	34,912	20,409	138,869
	Cases	75	979	30	51	1,135
	Rate	296.1	1,681.7	85.9	249.9	817.3
	Ratio (1 in X)	337	59	1,163	400	122
50-59	Population	18,099	63,849	46,765	17,947	146,660
	Cases	58	829	29	39	955
	Rate	320.5	1,298.4	62.0	217.3	651.2
	Ratio (1 in X)	312	77	1,612	460	153
60+	Population	17,638	84,645	93,347	26,248	221,878
	Cases	33	522	29	22	606
	Rate	187.1	616.7	31.1	83.8	273.1
	Ratio (1 in X)	534	162	3,218	1,193	366
Total Females by Race/Ethnicity	Population	180,448	408,855	296,505	134,372	1,020,180
	Cases	239	3,158	118	153	3,668
	Rate	132.4	772.4	39.8	113.9	359.5
	Ratio (1 in X)	755	129	2,512	878	278

Section VIII – HIV Exposure Category

Figure 10 – Proportion of Adult/Adolescent Total Living HIV Cases, by Estimated Exposure Category, Race/Ethnicity, and Sex at Birth, Alive on December 31, 2017, Reported through June 30, 2018



Note. Other exposure category and perinatal transmission not shown (<1 percent). Multiple imputation was used to estimate and adjust for missing transmission category.

Table 17 – Adult/Adolescent HIV Diagnoses during 2017, Linked to Care, Late Diagnosis, and First CD4 Test Result, by Estimated or Reported Exposure Category and Sex at Birth, Reported through June 30, 2018

Estimated or Reported Exposure Category	Adult/Adolescent Reported HIV Diagnoses						
	No.	% of Total	Linked to Care		Late HIV Diagnoses	First CD4 Test Result	
			% 1 mo.	% 3 mo.	%	%	Median Count
Male-to-male Sexual Contact (MSM)	257	53.1%	88.4%	93.5%	25.9%	93.2%	374
Injection Drug Use (IDU)	18	3.8%	81.3%	85.2%	36.8%	88.5%	346
Male-to-male Sexual Contact and Injection Drug Use (MSM/IDU)	4	0.8%	***	***	***	***	***
Heterosexual Contact (HET)	204	42.2%	84.9%	90.9%	37.3%	90.9%	311
Perinatal Transmission	1	0.2%	***	***	***	***	***
Other Exposures	0	0.0%	--	--	--	--	--
No Estimated or Reported Exposure	0	0.0%	--	--	--	--	--
Total	484	100.0%	86.6%	91.9%	31.0%	91.9%	338
Male Estimated or Reported Exposure Category							
Male-to-male Sexual Contact (MSM)	257	74.3%	88.4%	93.5%	25.9%	93.2%	374
Injection Drug Use (IDU)	13	3.6%	***	***	***	***	***
Male-to-male Sexual Contact and Injection Drug Use (MSM/IDU)	4	1.1%	***	***	***	***	***
Heterosexual Contact (HET)	73	21.0%	85.6%	88.7%	47.4%	90.0%	228
Perinatal Transmission	0	0.0%	--	--	--	--	--
Other Exposures	0	0.0%	--	--	--	--	--
No Estimated or Reported Exposure	0	0.0%	--	--	--	--	--
Total	346	100.0%	87.6%	92.2%	30.3%	92.2%	345
Female Estimated or Reported Exposure Category							
Injection Drug Use (IDU)	6	4.1%	***	***	***	***	***
Heterosexual Contact (HET)	131	95.1%	84.5%	92.2%	31.7%	91.5%	338
Perinatal Transmission	1	0.7%	***	***	***	***	***
Other Exposures	0	0.0%	--	--	--	--	--
No Estimated or Reported Exposure	0	0.0%	--	--	--	--	--
Total	138	100.0%	84.1%	91.3%	32.6%	91.3%	337

Note. Data for 2017 are preliminary because they are based on a 6-month reporting delay and should not be used to assess trends. Data have been statistically adjusted to account for missing transmission category, therefore, values may not sum to column total. Median count is weighted based on statistical adjustment. For exposure category by gender, please see the Maryland HIV Epidemiological Profile Transgender Persons Supplement.

*** Data withheld due to low population and/or case counts

Table 18 – Adult/Adolescent Living HIV Cases Alive on December 31, 2017, by Estimated or Reported Exposure Category and Sex at Birth, Reported through June 30, 2018

Estimated or Reported Exposure Category	Adult/Adolescent Total Living HIV Cases		
	No.	% of Total	% Living with AIDS
Male-to-male Sexual Contact (MSM)	4,725	44.5%	44.6%
Injection Drug Use (IDU)	757	7.1%	63.2%
Male-to-male Sexual Contact and Injection Drug Use (MSM/IDU)	243	2.3%	67.6%
Heterosexual Contact (HET)	4,746	44.7%	53.2%
Perinatal Transmission	103	1.0%	50.5%
Other Exposures	10	0.1%	70.0%
No Estimated or Reported Exposure	31	0.3%	48.4%
Total	10,614	100.0%	50.4%
Male Estimated or Reported Exposure Category			
Male-to-male Sexual Contact (MSM)	4,725	67.8%	44.6%
Injection Drug Users (IDU)	406	5.8%	60.9%
Male-to-male Sexual Contact and Injection Drug Use (MSM/IDU)	243	3.5%	67.6%
Heterosexual Contact (HET)	1,524	21.9%	59.4%
Perinatal Transmission	46	0.7%	43.5%
Other Exposures	4	0.1%	50.0%
No Estimated or Reported Exposure	19	0.3%	47.4%
Total	6,966	100.0%	49.6%
Female Estimated or Reported Exposure Category			
Injection Drug Use (IDU)	352	9.6%	65.8%
Heterosexual Contact (HET)	3,222	88.3%	50.2%
Perinatal Transmission	57	1.6%	56.1%
Other Exposures	6	0.2%	83.3%
No Estimated or Reported Exposure	12	0.3%	50.0%
Total	3,648	100.0%	51.9%

Note. Data have been statistically adjusted to account for missing transmission category, therefore, values may not sum to column total. For exposure category by gender, please see the Maryland HIV Epidemiological Profile Transgender Persons Supplement.

Table 19 – Adult/Adolescent Total Living HIV Cases by Estimated or Reported Exposure Category, Race/Ethnicity, and Sex at Birth, Alive on December 31, 2017 and Reported through June 30, 2018

Estimated or Reported Exposure Category	Adult/Adolescent Total Living HIV Cases					
	Race/Ethnicity					
	Hispanic		Non-Hispanic, Black, only		Non-Hispanic, White, only	
	No.	% of Total	No.	% of Total	No.	% of Total
Male-to-male Sexual Contact (MSM)	570	54.0%	3,206	39.4%	588	73.2%
Injection Drug Use (IDU)	38	3.6%	637	7.8%	40	5.0%
Male-to-male Sexual Contact and Injection Drug Use (MSM/IDU)	22	2.1%	171	2.1%	31	3.8%
Heterosexual Contact (HET)	416	39.4%	3,992	49.1%	137	17.0%
Perinatal Transmission	7	0.7%	88	1.1%	4	0.5%
Other Exposures	1	0.1%	6	0.1%	2	0.2%
No Estimated or Reported Exposure	1	0.1%	27	0.3%	2	0.2%
Total	1,055	100.0%	8,127	100.0%	803	100.0%

Male Estimated or Reported Exposure Category						
Male-to-male Sexual Contact (MSM)	570	69.7%	3,206	64.3%	588	85.7%
Injection Drug Use (IDU)	24	3.0%	338	6.8%	23	3.3%
Male-to-male Sexual Contact and Injection Drug Use (MSM/IDU)	22	2.7%	171	3.4%	31	4.4%
Heterosexual Contact (HET)	196	23.9%	1,213	24.3%	43	6.3%
Perinatal Transmission	4	0.5%	39	0.8%	1	0.1%
Other Exposures	1	0.1%	1	0.0%	1	0.1%
No Estimated or Reported Exposure	1	0.1%	17	0.3%	0	0.0%
Total	818	100.0%	4,984	100.0%	686	100.0%

Female Estimated or Reported Exposure Category						
Injection Drug Use (IDU)	14	5.9%	299	9.5%	18	15.2%
Heterosexual Contact (HET)	220	92.9%	2,780	88.4%	93	79.7%
Perinatal Transmission	3	1.3%	49	1.6%	3	2.6%
Other Exposures	0	0.0%	5	0.2%	1	0.9%
No Estimated or Reported Exposure	0	0.0%	10	0.3%	2	1.7%
Total	237	100.0%	3,143	100.0%	117	100.0%

Note. Data have been statistically adjusted to account for missing transmission category, therefore, values may not sum to column total. For exposure category by gender, please see the Maryland HIV Epidemiological Profile Transgender Persons Supplement.

Table 20 – CD4 Test Results during 2017 for Adult/Adolescent HIV Cases Alive on December 31, 2017, by Estimated or Reported Exposure Category, Reported through June 30, 2018

Estimated or Reported Exposure Category	Adult/Adolescent Total Living HIV Cases							
	No.	Recent CD4 Test Results						
		No. with Test	% with Test	Median Count	<200	200-349	350-499	500+
Male-to-male Sexual Contact (MSM)	4,725	3,452	73.1%	590	7.7%	12.2%	17.7%	62.4%
Injection Drug Use (IDU)	757	540	71.3%	578	9.8%	12.4%	18.3%	59.6%
Male-to-male Sexual Contact and Injection Drug Use (MSM/IDU)	243	183	75.5%	568	10.0%	12.9%	18.3%	58.7%
Heterosexual Contact (HET)	4,746	3,499	73.7%	577	9.4%	12.2%	18.4%	59.9%
Perinatal Transmission	103	82	79.6%	511	13.4%	15.9%	15.9%	54.9%
Other Exposures	10	9	90.0%	408	0.0%	44.4%	11.1%	44.4%
No Estimated or Reported Exposure	31	24	77.4%	593	12.5%	4.2%	25.0%	58.3%
Total	10,614	7,790	73.4%	582	8.8%	12.3%	18.1%	60.9%

Note. Data have been statistically adjusted to account for missing transmission category, therefore, values may not sum to column total. Median count is weighted based on statistical adjustment.

Table 21 – Viral Load Test Results during 2017 for Adult/Adolescent HIV Cases Alive on December 31, 2017, by Estimated or Reported Exposure Category, Reported through June 30, 2018

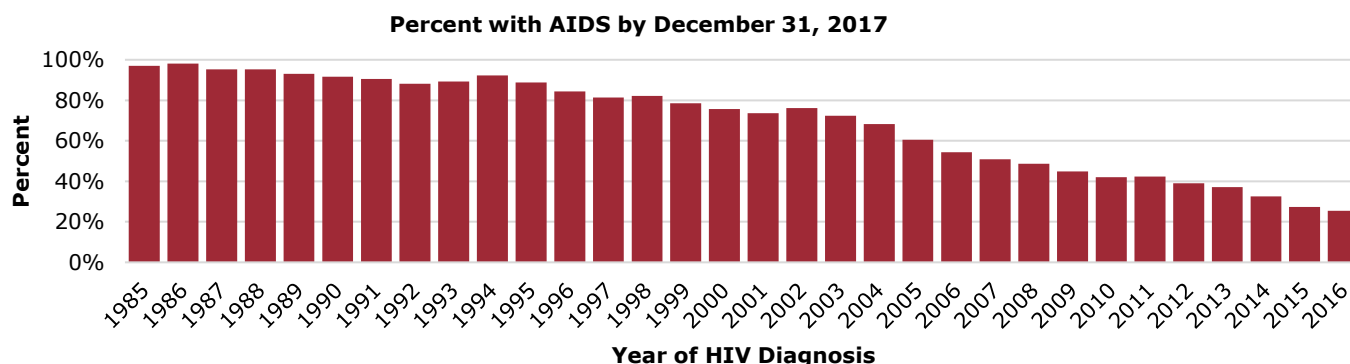
Estimated or Reported Exposure Category	Adult/Adolescent Total Living HIV Cases				
	No.	Recent Viral Load Test Results			
		No. with Test	% with Test	% Suppressed	Median Unsuppressed
Male-to-male Sexual Contact (MSM)	4,725	3,465	73.3%	85.0%	14,500
Injection Drug Use (IDU)	757	548	72.4%	87.5%	9,947
Male-to-male Sexual Contact and Injection Drug Use (MSM/IDU)	243	180	73.9%	84.2%	3,876
Heterosexual Contact (HET)	4,746	3,541	74.6%	86.6%	11,274
Perinatal Transmission	103	86	83.5%	64.0%	14,720
Other Exposures	10	9	90.0%	88.9%	220
No Estimated or Reported Exposure	31	24	77.4%	62.5%	2,350
Total	10,614	7,852	74.0%	85.6%	12,692

Note. Data have been statistically adjusted to account for missing transmission category, therefore, values may not sum to column total. Median unsuppressed is weighted based on statistical adjustment.

Section IX – Disease Progression and Mortality

Figure 11 – Trends in Disease Progression by Year of HIV Diagnosis, 1985-2016, Reported through June 30, 2018

Number of Adult/Adolescent Reported HIV Cases, Age 13+ at HIV Diagnosis, with or without an AIDS Diagnosis by December 31, 2016 (Adult/Adolescent Reported HIV Diagnoses), Number of Adult/Adolescent Reported HIV Cases with an AIDS Diagnosis by December 31, 2017 (Reported AIDS Diagnoses), Percent by Year of HIV Diagnosis of Adult/Adolescent Reported HIV Diagnoses with a Reported AIDS Diagnosis by December 31, 2017, the Average Years from HIV Diagnosis to AIDS Diagnosis for Cases with an AIDS Diagnosis, and the Percent by Year of HIV Diagnosis of Reported Adult/Adolescent HIV Diagnoses with a Reported AIDS Diagnosis at 1 Year, 2 Years, 5 Years, and 10 Years after HIV Diagnosis, by Year of HIV Diagnosis from 1985 through 2016, as Reported by Name through June 30, 2018

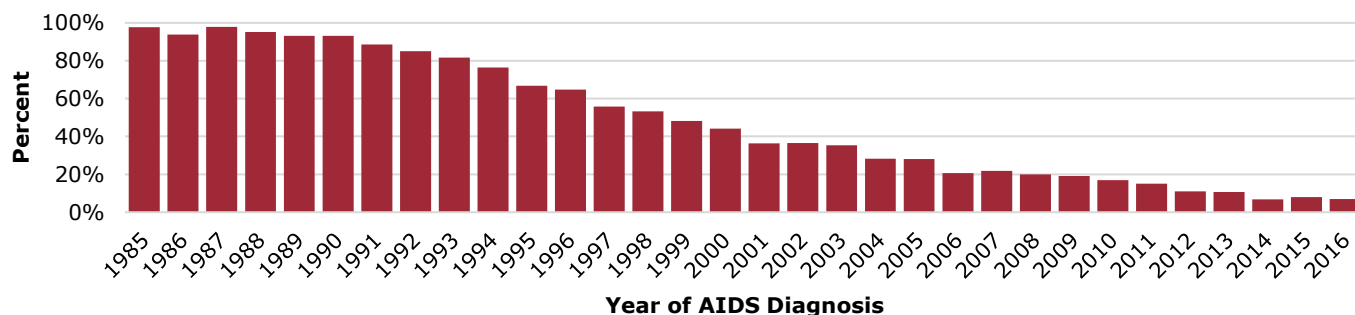


Year of HIV Diagnosis	Adult/Adolescent Reported HIV Diagnoses				Percent with AIDS by Years After HIV Diagnosis			
	No.	Reported AIDS Diagnoses		Mean Years from HIV to AIDS				
		No.	% with AIDS		1 Year	2 Years	5 Years	10 Years
<1985	108	101	93.5%	7.7	42.6%	42.6%	45.4%	59.3%
1985	201	195	97.0%	5.5	42.8%	44.3%	50.7%	78.1%
1986	267	262	98.1%	4.6	44.6%	45.3%	55.4%	87.6%
1987	363	346	95.3%	3.8	48.5%	49.6%	65.0%	86.8%
1988	415	395	95.2%	3.1	49.2%	54.0%	73.7%	89.2%
1989	479	446	93.1%	2.9	50.1%	53.0%	73.3%	87.9%
1990	504	462	91.7%	2.9	48.8%	56.0%	74.4%	86.7%
1991	574	520	90.6%	2.5	51.9%	60.5%	78.2%	84.7%
1992	507	447	88.2%	3.0	48.1%	55.0%	71.2%	80.7%
1993	413	369	89.3%	2.2	58.8%	65.1%	75.5%	84.3%
1994	397	366	92.2%	2.0	66.2%	71.5%	78.6%	86.6%
1995	409	363	88.8%	1.9	66.0%	71.1%	75.8%	83.9%
1996	390	329	84.4%	2.0	61.8%	63.8%	71.3%	80.0%
1997	411	334	81.3%	1.9	59.9%	63.7%	69.3%	77.1%
1998	379	311	82.1%	2.0	59.1%	63.1%	69.7%	77.6%
1999	433	340	78.5%	1.8	59.8%	63.0%	67.7%	73.7%
2000	440	333	75.7%	1.9	55.2%	58.4%	64.3%	71.8%
2001	432	318	73.6%	2.0	52.8%	54.9%	63.7%	69.0%
2002	464	353	76.1%	1.3	60.3%	64.7%	69.6%	73.3%
2003	534	386	72.3%	1.5	56.0%	58.2%	63.7%	69.5%
2004	590	403	68.3%	1.6	51.9%	54.6%	58.6%	66.1%
2005	598	362	60.5%	1.2	48.8%	51.2%	55.4%	59.7%
2006	645	351	54.4%	1.5	40.3%	42.9%	48.4%	53.2%
2007	793	404	50.9%	1.6	36.3%	38.5%	43.8%	49.7%
2008	716	348	48.6%	1.3	35.6%	38.4%	45.0%	--
2009	638	286	44.8%	1.5	31.8%	34.0%	39.3%	--
2010	652	274	42.0%	1.1	30.8%	33.7%	38.5%	--
2011	572	242	42.3%	1.0	32.9%	36.0%	39.5%	--
2012	531	207	39.0%	0.7	31.8%	34.7%	38.6%	--
2013	567	211	37.2%	0.5	32.8%	34.7%	--	--
2014	539	175	32.5%	0.5	26.9%	29.1%	--	--
2015	547	150	27.4%	0.3	25.2%	26.9%	--	--
2016	476	121	25.4%	0.3	23.9%	--	--	--
Total	15,984	10,510	65.8%	2.1	45.0%	48.3%	55.7%	62.5%

**Figure 12 – Trends in Survival Times by Year of AIDS Diagnosis, 1985-2016,
Reported through June 30, 2018**

Number of Adult/Adolescent Reported HIV Cases, Age 13+ at HIV Diagnosis, with an AIDS Diagnosis by December 31, 16 (Adult/Adolescent Reported AIDS Diagnoses), Number of Adult/Adolescent Reported AIDS Diagnosis Reported to Have Died of Any Cause by December 31, 2017 (Reported AIDS Deaths), Percent by Year of AIDS Diagnosis of Adult/Adolescent Reported AIDS Diagnoses with a Reported AIDS Death (Percent Dead) by December 31, 2017, the Average Years from AIDS Diagnosis to Death for Cases that have Died, and the Percent by Year of AIDS Diagnosis of Adult/Adolescent Reported AIDS Diagnoses Not Reported to Have Died (Percent Alive) at 1 Year, 2 Years, 5 Years, and 10 Years after AIDS Diagnosis, by Year of AIDS Diagnosis from 1985 through 2016, as Reported by Name through June 30, 2018

Percent Dead by December 31, 2017



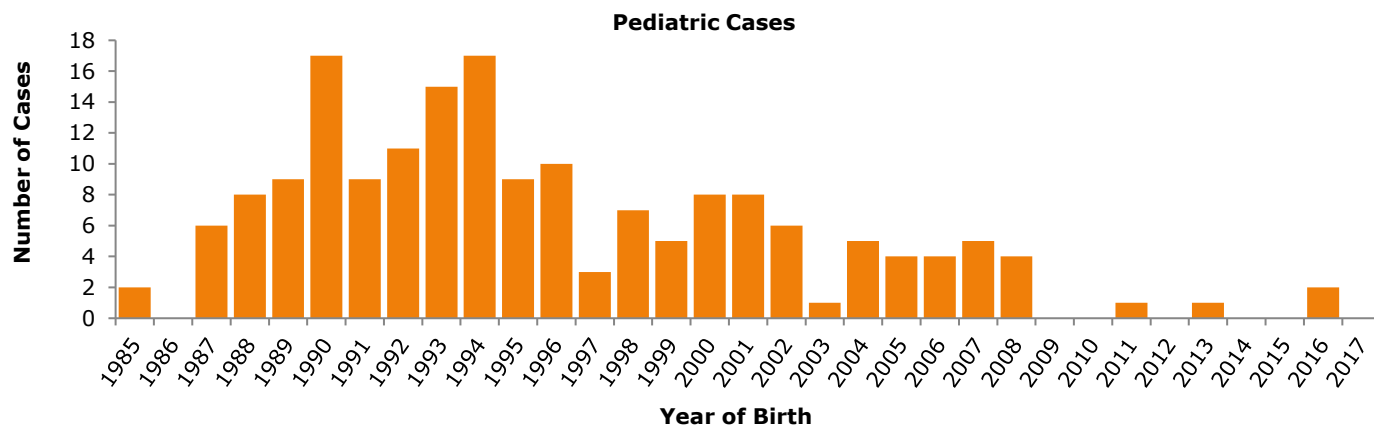
Year of AIDS Diagnosis	Adult/Adolescent Reported AIDS Diagnoses							
	No.	Reported AIDS Deaths			Percent Alive by Years After AIDS Diagnosis			
		No.	% Dead	Mean Years from AIDS to Death	1 Year	2 Years	5 Years	10 Years
<1985	53	53	100.0%	0.9	34.0%	5.7%	1.9%	0.0%
1985	86	84	97.7%	1.4	39.5%	15.1%	11.6%	3.5%
1986	114	107	93.9%	1.9	51.8%	32.5%	12.3%	8.8%
1987	187	183	97.9%	2.1	51.9%	29.4%	10.7%	6.4%
1988	207	197	95.2%	2.0	62.8%	37.2%	14.0%	7.2%
1989	265	247	93.2%	3.1	68.3%	50.6%	21.5%	12.8%
1990	293	273	93.2%	2.9	64.8%	48.5%	21.5%	13.3%
1991	364	322	88.5%	2.5	67.6%	52.2%	19.8%	15.1%
1992	436	371	85.1%	3.0	74.1%	53.4%	26.1%	21.1%
1993	459	375	81.7%	3.5	73.2%	57.7%	34.6%	26.8%
1994	499	381	76.4%	3.4	75.6%	55.5%	40.5%	30.3%
1995	477	318	66.7%	4.5	75.3%	65.8%	55.3%	44.0%
1996	405	262	64.7%	5.2	80.7%	74.8%	63.7%	47.9%
1997	355	198	55.8%	4.7	80.8%	75.2%	63.7%	53.8%
1998	319	170	53.3%	5.0	85.6%	81.5%	70.2%	55.5%
1999	334	161	48.2%	4.6	84.4%	79.0%	70.4%	58.7%
2000	340	150	44.1%	6.0	92.1%	89.7%	79.1%	65.3%
2001	336	122	36.3%	4.3	87.8%	84.5%	77.1%	68.8%
2002	353	129	36.5%	4.5	89.2%	86.7%	77.1%	69.7%
2003	398	141	35.4%	4.0	88.7%	83.2%	76.4%	69.3%
2004	399	113	28.3%	4.3	91.0%	88.2%	82.5%	75.9%
2005	423	119	28.1%	3.6	90.1%	87.7%	80.4%	74.5%
2006	388	80	20.6%	3.8	93.3%	91.2%	86.9%	79.9%
2007	377	82	21.8%	3.1	91.2%	88.3%	84.6%	78.8%
2008	336	67	19.9%	2.1	90.2%	87.2%	83.0%	--
2009	303	58	19.1%	2.0	90.1%	88.4%	83.2%	--
2010	348	59	17.0%	2.0	92.8%	90.2%	85.3%	--
2011	273	41	15.0%	2.0	94.1%	90.8%	86.1%	--
2012	310	34	11.0%	1.1	92.6%	91.0%	89.4%	--
2013	330	35	10.6%	1.0	93.6%	91.5%	--	--
2014	266	18	6.8%	0.9	95.9%	94.0%	--	--
2015	237	19	8.0%	0.4	92.8%	92.0%	--	--
2016*	228	16	7.0%	0.3	93.4%	--	--	--
Total	10,498	4,985	47.5%	3.4	82.7%	74.8%	63.7%	57.0%

*2016 AIDS deaths are preliminary

Section X – Pediatric Cases

Figure 13 – Trends in Pediatric HIV Cases, 1985-2017, Reported through June 30, 2018

Number of Pediatric Reported HIV Cases, Age <13 at HIV Diagnosis, with or without an AIDS Diagnosis (Pediatric Reported HIV Diagnoses) by Year of Birth, by Year of HIV Diagnosis, by Year of AIDS Diagnosis, and by Year of Death Due to Any Cause, and Number of Pediatric Reported HIV Cases, Age <13 at HIV Diagnosis, with or without an AIDS Diagnosis and Not Reported to have Died as of December 31st of Each Year (Pediatric Total Living HIV Cases) from 1985 through 2017, as Reported by Name through June 30, 2018



Year	Pediatric Reported HIV Diagnoses				Pediatric Total Living HIV Cases
	No. by Year of Birth	No. by Year of HIV Diagnosis	No. by Year of AIDS Diagnosis	No. by Year of Death	No. Alive on December 31st of Each Year
<1985	17	1	0	0	--
1985	2	4	2	1	5
1986	0	5	0	0	10
1987	6	6	4	0	16
1988	8	2	3	2	17
1989	9	7	5	2	22
1990	17	12	6	4	30
1991	9	13	7	3	40
1992	11	11	7	2	47
1993	15	8	8	4	51
1994	17	8	4	1	58
1995	9	9	9	5	61
1996	10	12	10	2	70
1997	3	4	5	1	73
1998	7	5	1	3	75
1999	5	10	6	0	84
2000	8	5	3	1	88
2001	8	5	2	2	91
2002	6	9	2	0	100
2003	1	4	1	4	100
2004	5	5	2	2	103
2005	4	8	3	1	110
2006	4	11	3	1	120
2007	5	10	3	1	129
2008	4	5	1	0	136
2009	0	3	2	0	139
2010	0	1	1	1	140
2011	1	1	1	0	142
2012	0	1	0	0	145
2013	1	2	2	0	146
2014	0	3	0	0	149
2015	0	0	6	0	148
2016	2	3	2	0	153
2017	0	1	1	0	155
Total	194	194	112	43	--

Table 22 – Current Pediatric HIV Total Living HIV Cases, Alive on December 31, 2017, by Jurisdiction of Current Residence, Reported through June 30, 2018

Jurisdiction of Current Residence	Current Pediatric Total Living HIV Cases	
	No.	% of Total
Montgomery	5	23.8%
Prince George's	16	76.2%
Total	21	100.0%

Table 23 – Current Pediatric HIV Total Living HIV Cases, Alive on December 31, 2017, by Sex at Birth and Race/Ethnicity, Reported through June 30, 2018

Demographic Characteristic	Current Pediatric Total Living HIV Cases	
	No.	% of Total
Sex at Birth		
Male	9	42.9%
Female	12	57.1%
Race/Ethnicity		
Hispanic	3	14.3%
Non-Hispanic	18	85.7%
American Indian/ Alaska Native, only	0	0.0%
Asian, only	0	0.0%
Black, only	16	76.2%
Native Hawaiian/Other Pacific Islander, only	0	0.0%
White, only	0	0.0%
Multiracial/Other	2	9.5%
Total	21	100.0%

Glossary of Terms

Adult/Adolescent Living HIV Cases with AIDS: Reported HIV diagnoses, age 13 years or older as of December 31st of the specified year, with an AIDS diagnosis, and not reported to have died as of December 31st of the specified year.

Adult/Adolescent Living HIV Cases without AIDS: Reported HIV diagnoses, age 13 years or older as of December 31st of the specified year, without an AIDS diagnosis, and not reported to have died as of December 31st of the specified year.

Adult/Adolescent Reported AIDS Diagnoses: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with an initial AIDS diagnosis during the specified year.

Adult/Adolescent Reported HIV Diagnoses: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with an initial HIV diagnosis during the specified year.

Adult/Adolescent Total Living HIV Cases: Reported HIV diagnoses, age 13 years or older as of December 31st of the specified year, with or without an AIDS diagnosis, and not reported to have died as of December 31st of the specified year.

Age at AIDS Diagnosis: Age group at time of initial AIDS diagnosis.

Age at HIV Diagnosis: Age group at time of initial HIV diagnosis.

Age on [date]: Age group of living cases on the specified date.

AIDS Deaths: Reported HIV diagnoses with an AIDS diagnosis that have died due to any cause.

CD4 Result Distribution (<200, 200-349, 350-499, 500+): Percent of cases with a CD4 test distributed by their CD4 count results (cells per microliter).

CD4 With Test: Number and percent of adult/adolescent total living HIV cases with a recent CD4 test result.

Corrections: Residence in a state or federal prison. Does not include local jails and detention centers.

Current Residence: Jurisdiction of residence from the most recent report since January 1, 2009.

First CD4 Test Result Median Count: Median CD4 count (cells per microliter) of the first CD4 test result reported within 12 months following initial HIV diagnosis.

First CD4 Test Result Percent: Percent of adult/adolescent reported HIV diagnoses with the first CD4 test result reported within 12 months following the initial HIV diagnosis.

Gender Expression: people's outward presentation of their gender which may or may not conform to socially defined behaviors and characteristics typically associated with being either masculine or feminine.

Gender Identity: refers to one's internal understanding of one's own gender, or the gender with which a person identifies.

Jurisdiction of Current Residence: Jurisdiction of residence from the most recent report since January 1, 2009.

Jurisdiction of Residence: Jurisdiction of residence at diagnosis or current residence.

Jurisdiction of Residence at AIDS Diagnosis: Jurisdiction of residence at time of initial AIDS diagnosis.

Jurisdiction of Residence at Diagnosis: Jurisdiction of residence at the later time of initial HIV diagnosis or time of initial AIDS diagnosis.

Jurisdiction of Residence at HIV Diagnosis: Jurisdiction of residence at time of initial HIV diagnosis.

Late HIV Diagnosis: Percent of adult/adolescent reported HIV diagnoses with an initial AIDS diagnosis less than or equal to 12 months after their initial HIV diagnosis.

Linked to Care: Percent of adult/adolescent reported HIV diagnoses with a reported CD4 or viral load test performed less than or equal to 1 month or 3 months after their initial HIV diagnosis.

Living HIV Cases with AIDS: Reported HIV diagnoses with an AIDS diagnosis and not reported to have died as of December 31st of the specified year.

Living HIV Cases without AIDS: Reported HIV diagnoses without an AIDS diagnosis and not reported to have died as of December 31st of the specified year.

Mean Years from HIV Diagnosis: Mean or average number of years from initial HIV diagnosis to initial AIDS diagnosis for cases with a reported AIDS diagnosis.

Mean Years from AIDS diagnosis to AIDS Death: Mean or average number of years from initial AIDS diagnosis to death for adult/adolescent reported AIDS diagnoses with a reported death.

Median Count: Median CD4 count (cells per microliter), among adult/adolescent total living HIV cases, of the most recent CD4 test result measured in the specified year.

Median Unsuppressed: Median unsuppressed viral load (copies per milliliter) among adult/adolescent living HIV cases with the most recent viral load test result measured in the specified year of 200 copies per milliliter or greater.

Pediatric Total Living HIV Cases: Reported HIV diagnosis, age less than 13 years at HIV diagnosis, with or without an AIDS diagnosis, and not reported to have died as of December 31st of the specified year.

Percent Change: The percent change in number of adult/adolescent total living HIV cases from residence at diagnosis to current residence.

Percent Alive by Years after AIDS Diagnosis: Percent of adult/adolescent reported AIDS diagnoses not reported to have died at 1 year, 2 years, 5 years and 10 years after initial AIDS diagnosis, by year of AIDS diagnosis.

Percent Late HIV Diagnosis: Percent of adult/adolescent reported AIDS diagnoses with an initial HIV diagnosis less than or equal to 12 months prior to their initial AIDS diagnosis.

Percent Suppressed: Percent of adult/adolescent total living HIV cases with a recent viral load test result measured in the specified year of less than 200 copies per milliliter.

Percent Living with AIDS: The percent of reported HIV diagnoses with an AIDS diagnosis not reported to have died as of December 31st of the specified year

Percent with AIDS by Years after HIV Diagnosis: Percent of adult/adolescent reported HIV diagnoses in the specified year with an initial AIDS diagnosis at 1 year, 2 years, 5 years and 10 years after HIV diagnosis.

Population: Population estimate for July 1, 2017.

Population Age 13+: Population age 13 years or older, estimate for July 1, 2017.

Rate: Number of HIV cases divided by the population and multiplied by 100,000.

Ratio (1 in X): Number of people for every 1 living HIV case in the population, or 1 living HIV case in every X number of people.

Recent CD4 Test Result: The most recent CD4 test result measured in the specified year.

Recent Viral Load Test Result: The most recent viral load test result measured in the specified year.

Reported AIDS Deaths: Reported HIV diagnoses with an AIDS diagnosis, reported to have died of any cause during the specified year.

Reported AIDS Diagnoses: Reported HIV diagnoses with an initial AIDS diagnosis during the specified year.

Reported HIV Diagnoses: Reported HIV diagnoses with an initial HIV diagnosis during the specified year.

Residence at Diagnosis: Jurisdiction of residence at later time of initial HIV diagnosis or initial AIDS diagnosis.

Retained in HIV Care: HIV diagnosed with a reported CD4 or viral load test result performed or reported antiretroviral use in the specified year.

Suppressed Viral Load: HIV Diagnosed with the most recent viral load measured in the specified year of less than 200 copies per milliliter.

Total Living HIV Cases: Reported HIV diagnoses with or without an AIDS diagnosis and not reported to have died as of December 31st of the specified year.

Transgender Female: A person whose sex assigned at birth is male but whose gender identity is female.

Transgender Male: A person whose sex assigned at birth is female but whose gender identity is male.

Another Gender Identity: Additional gender identities or gender expressions.

Viral Load With Test: Number and percent of adult/adolescent total living HIV cases with a recent viral load test result.